FILE NOTATIONS Entered in NID File Entered On S R Sheet Location Map Pinned Card Indexed I W R for State or Fee Land	Checked by Chief Copy N I D to Field Office Approval Letter Disapproval Letter
COMPLETION DATA: Date Well Completed OW WW TA GW OS PA	Location Inspected Bond released State of Fee Land
Driller's Log	FILED
Electric Logs (No.)	GR GR-N Micro

WELL NO. KEEL RANCH STATE #1-16 API NO. 43-007-10753 SEC. 16, T. 12S, R. 13W CARBON COUNTY, UTAH

NOTES FROM COVER ON OLD WELL FILE

THE LOCATION WAS CHECKED WITH TOPOG. SHEET AND APPEARS TO BE IN AGREEMENT WITH LETTER REGARADING UNORTHODOX WELL SITE. APPROVAL CAN THEREFORE BE GRANTED. PMB

INSTRUCTIONS:

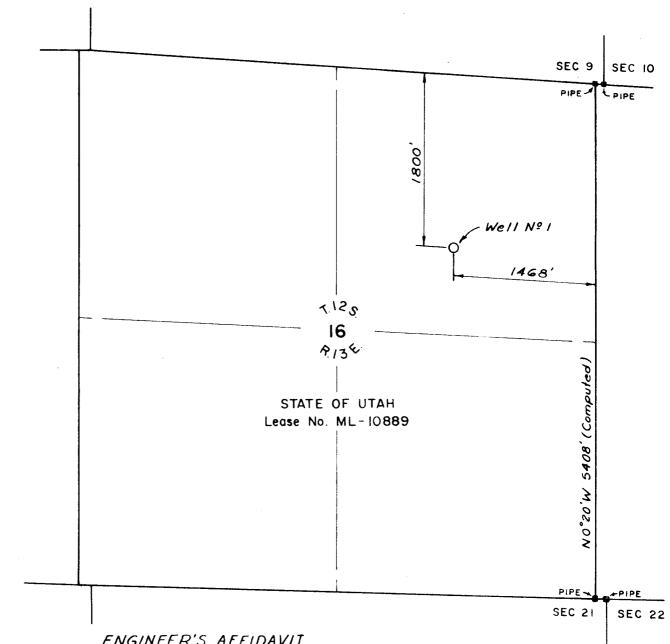
LAKE GENERAL E.

OIL AND GAS CONSTRUCTION CONMITTATION NOTICE OF INTENTION TO DAIL!

			v .	August 29	1963
Oil and Gas Conse	rvation Commi	asion: //	11/1/2011		
the work of drill	Ut ing well No	notice is her can State	eby given to	Oft from (N) lin	ention to commence e and 1468 ft William Mandarea (Field or Unit)
Carbon	LAND:	Fee and Paten	ted.()	Name of Owner	HATELL TOTALLING STUTTED LIKE THE MENTALIST OF AUTOMORPHIST SI AUTOMORPHIST SHAPE
(County)		State		Address	t vings o greiga i si gra unggin gi su ga ya gannandagi ga gaga sahawana amini nanananda.
		Public Donain Lease No			CONSTRUCTION CONTRACTOR ASSESSMENT OF THE CON
Is Location a reg	ular or excep	stion to spacin	g rule ?Ex	ceptionlas surety	bond been filed; Yes
With when? St	ate	Area is drill	ing Unit L	ease Alevation	of ground above
Accords, were a subjective				(Derra L pe of tools to b	
or Kelley Bushing	}	ed Drilling dep	oth 8500 ft.	Objective format lower into Emerg	ion Wasatch zones &
engeneration of the superior transfer as it is pre-viously stated as it is the superior to the superior to the superior transfer as it is the superior to the	raena agagagata Artifores situaturata tanon merekes ersek 1980-n. 1994 b. 1980 b. Sund 1980 b. Sunda (h. 1980)		CASING PRO		venenting veptns
Size of Casing Inches A.P.I.	Weight Per C Foot	irade and Type	Ft. In.		III a date byd-imichlike og branstroppinskinskinskinskinskinskinskinskinskinsk
13-3/8 5-1/2	48	h-40 st&c n-80 lt&c	8500!	<u>8</u>	From landing pt to point well above pro-
AND STATE OF THE PROPERTY OF T	geram ett ja sprakter i skallinger kan hall der hen sill hat i halt statt stat stat stat stat stat stat	ig the galactic control of the second	engen og sjæler og det engel og generalet en generalet. Og det engel og det en generalet en generalet en generalet en generalet en generalet en generalet en generalet Og det en generalet	Commence of the second	ucing zone, if encounte
The second specific and the second se	rildest moll	An excention	to the spa	l remarks or info. cing rule will be ation Division,	filed separately Salt Lake City, Utah
I hereby certify herein made are to	under the per o the best o	nather of new in	FPIDAVIT ry, that th and belief	, ring, work and	mined and statements and complete,
Approved				Ly B. W Croft	wift to
By					rod. & PL Divisions
		MOTAL SPECIES (SANTANIAN ANCIONE) S. VII. MEEGIS ANCIONISMIN I		MOUNTAIN FUEL	SUPPLY COMPANY C Operator)
				adress P. O. Box	1129, Rock Springs,
•				Wymming.	and the state of t

1. Complete this form in Duplicate and mail, both copies to the Oir and Gas Conservation

Commission. Rm 105, Capitol Blog., Salt Lake City 14, Utah.



ENGINEER'S AFFIDAVIT

State of Wyoming State of Sweetwater

I, R.C. Day, of Rock Springs Wyoming, hereby certify that this map was made from notes taken during an actual survey made under my direction by A.L. Nelson on August 12 to 15, 1963; and that it correctly represents the location thereon with section measurements based on the official survey plat of Section 16, T.125., R. 13E and the resurvey plat of adjoining Sections 9 & 21, T.125., R. 13E.

Utah Registration Nº 1295

LOCATION DATA

WELL- Well Nº /

FIELD - Minnie Maud

LOCATION -

1800' From North Line 1468' From East Line NE SW NE Sec. 16, T. 125., R. 13E. Carbon County, Utah

ELEVATION -

6755 Ground (By Stadia Levels from USC & B.M. on Sec. Corner - Sec. 13,24,18 & 19, T. 125., R. 12-13 E.

SURVEYED BY-

A.L. Nelson August 12-15, 1963

DATE OF REPORT -

August 16,1963

REMARKS -

Well Elevation for Ground as Graded Weather - Hot w/ Afternoon Showers

REVISIONS			MOUNTAIN FU	FL SUP	PLY CO
DESCRIPTION	DATE	BY	ROCK SPRI		
			WELL L	OCATION	ļ
			MINNIE MAU	D WEL	L Nº 1
			NE SW NE SEC.	16, T.12S.,	,R.13 E.
			CARBON CO	UNTY, UT	АН
			DRAWN: 8/16/63 GeL	SCALE:	1"= 1000
			CHECKED ROW KAL	DRWG. NO.	M-7459

FILE NO. A-II

SHEET

OF

**	FILE NOTATIONS **
DATE: _ March 23 178	Re-entry
OPERATOR: Juiga 1941	ling Company Unc.
WELL NO: Keel Ranch Ur	it #1-16
Location: Sec. 16 T. 1	125 R. 13E County: Carbon
File Prepared:	Entered on N.I.D:
Card Indexed:	Completion Sheet:
API Nu	umber 43-007 10753
CHECKED BY:	
Petroleum Engineer:	J. Marler 3-30-81
Director:	
Administrative Aide: In and Cull for Mations and	Keel Ranch Unit/OK on Indigs;
APPROVAL LETTER: State Lace	se Bord in Lands.
Bond Required:	se bond fands (ed n) State fands Survey Plat Required:
Order No.	O.K. Rule C-3
Rule C-3(c), Topographic E: within a 660'	xception - company owns or controls acreage radius of proposed site
Lease Designation 5t.	Plotted on Map
Approvo	el Letter Written
Hot Line P.I.	l Letter Written

MOUNTAIN FUEL SUPPLY GOMPANY

180 EAST FIRST SOUTH STREET
TELEPHONE DAVIS 8-8315

SALT LAKE CITY 10, UTAH

L. W. FOLSOM
MANAGER, EXPLORATION DIVISION

August 29, 1963

Utah Oil and Gas Conservation Commission 310 Newhouse Building 10 Exchange Place Salt Lake City, Utah

Attention: Mr. Paul W. Burchell

Gentlemen:

Utah State Well No. 1 Minnie Maud Area Carbon County, Utah

Mountain Fuel Supply Company proposes to drill a well in the $SW_{\frac{1}{4}}^{\frac{1}{4}}NE_{\frac{1}{4}}^{\frac{1}{4}}$ of Section 16, Township 12 South, Range 13 East, Carbon County, Utah. You will in the near future receive our Notice of Intention to Drill.

The well as located at 1800 feet south of the north line and 1468 feet west of the east line does not meet the requirements as set forth in the State of Utah Oil and Gas Conservation Commission General Rules and Regulations under Rule C-3(b). The following reasons are given in request of your approval for an exception to these requirements and the necessity for an unorthodox location under Rule C-3(c).

The well will be drilled on Utah Lease ML-10889. The lessee of record on this lease is The British-American Oil Producing Company and comprises the N_2^1 and the $SW_{\frac{1}{4}}$ and the N_2^1 of the $SE_{\frac{1}{4}}$ of said section. Therefore, the ownership of all oil and gas leases within a radius of 660 feet of the proposed location is common with the ownership under the proposed location.

Topographically, the area is extremely rugged. Immediately adjacent to the drill site location is a steep dry wash entering Nine Mile Canyon from the north. Both the east and west slopes of the dry wash are extremely steep. The location is in the mouth of the wash just north of the main Nine Mile Canyon road, Utah State Highway 53. Immediately west of the location is a ranch corral. To move the location sufficiently west and south to be within the limits prescribed in Rule C-3(b) would place the location in an impossible position on the highway and/or irrigation ditch. To move the location sufficiently north to place it in the $W^1_{\overline{\nu}}$ or the $W^1_{\overline{\nu}}$ of Section 16 would be prohibitively expensive because of additional road building required.

The location of our proposed well is, therefore, extremely limited, and we request your approval for an exception to the requirements of Rule C-3(b) for the reasons given.

Very truly yours,

L. H. Talsom

L. W. Folsom

LWF:dgk

cc: Mr. D. F. Russell
United States Geological Survey
416 Empire Building
Salt Lake City, Utah

August 30, 1963

Mountain Fuel Supply Company P. O. Box 1129 Rock Springs, Wyoming

Attention: B. W. Croft, General Manager Prod. & PL Div.

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. State #1, which is to be located 1800 feet from the north line and 1468 feet from the east line of Section 16, Township 12 South, Range 13 East, SLBM, Carbon County, Utah.

Please be advised that insofar as this office is concerned, approval to drill said well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission.

As soon as you have determined that it will be necessary to plug and abandon the above mentioned well, you are hereby requested to <u>immediately</u> notify the following:

PAUL W. BURCHELL, Chief Petroleum Engineer Office: DA 8-5771 or DA 8-5772 Home: CR 7-2890 Salt Lake City, Utah

This approval terminates within 90 days if the above mentioned well has not been spudded in within said period.

Enclosed please find Form OGCC-8-X, which is to be

completed if water sands (aquifers) are encountered while drilling, particularly assessable near surface water sands. Your cooperation with respect to completing this form will be greatly appreciated.

Please have the enclosed "Minimum Safety Requirements" notice posted in a conspicuous place on the drilling location.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT EXECUTIVE DIRECTOR

CBF:cnp

cc:

State Land Board Salt Lake City, Utah

H. L. Coonts, Petroleum Engineer Oil & Gas Conservation Commission Moab, Utah Ecopy KAhC

Budget Buteau No. 42 Pascs	W L'
Budget Bureau No. 42-R356.5. Approval expires 12-31-60	118

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

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LAND O	FFICE			
LEASE N	UMBER			
Unit	Minnie	Maud		

LESSEE'S MONTHLY REPORT OF OPERATIONS

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Phone										L CHIEF ACCOUNTA
SEC. AND 1/4 OF 1/4	771	RANGE		DAYS PRODUCED	1	1			BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut d
SW		il.								Sus
16	12	13	1							Spudded 9/30/63 Drlg. Surface Ho

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate Form 9-329

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Lopey to NhC

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R356.5. Approval expires 12-31-60	9
LAND OFFICE	
Lease Number	
UNIT Keel Ranch Area	

LESSEE'S MONTHLY REPORT OF OPERATIONS

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SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL No.	DAYS PRODUCED	BARRELS	OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut do cause; date and result of test gasoline content of gas)
. SW 2 16	12	13	1	Can	eh						Spudded 9/20/63 Oct. 31, 1963 Drilling at 440
											M cu. ft. of gas sold;

16—25766-8 U. S. Government Printing Office

Form	OGCC-1
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(SUBMIT IN DUPLICATE)

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STATE OF UTAH OIL & GAS CONSERVATION COMMISSION

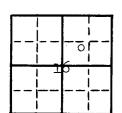
SALT LAKE CITY, UTAH

Fee and Patented
Lease No. ML-10889
Public Domain
Indian

Notice of Intention to Drill	Subsequent Report of Altering Subsequent Report of Redrill Supplementary Well History.	g Casing
	NATURE OF REPORT, NOTICE, OR OTHER DATA)	
Minnie Maud Utah State Well No. 1	October 7	, 19 <u>63</u>
Minnie Maud Utah State Well No. 1 Well No. 1 is located 1800 ft. from	$\begin{cases} N \\ XXX \end{cases}$ line and $\frac{1468}{1468}$ ft. from $\begin{cases} 1 \\ XX \end{cases}$	line of Sec. 16
NE SW NE sec. 16 12S	13E	S. L. B. & M.
Minnie Maud Carbon (Field) (Co	ounty or Subdivision)	(State or Territory)
The elevation of the recrise floor above sea level: A drilling and plugging bond has been filed with DETA (State names of and expected depths to objective sands; s jobs, cementing points, and all other important work, surface contractor. At a depth of 610', a surface casing, measuring 521.14' net, a landed at 534.49' KBM. The casing was returned during cementing operations a returned to surface. After 24 hours in bottom of cellar. Pressure tested pressure tests held good. Presently preparing to drill out below	AILS OF WORK show sizes, weights, and lengths of propose face formation, and date anticipate spude amber 30, 1963, by Brinkerhoff arface string of 13-3/8" OD, and 526.09' gross, was run in as cemented with 475 sacks ceen and about 1 barrels of mud-cut WOC, checked cement top and ed casing and BOP's to 500 ps	sed casings; indicate mudding ding-in.) If Drilling Company, 48#, H-40, 8rd thd into the well and ement. Good mud it cement slurry if found good cement
At depths of 404' to 476' in the Gree formation, formation water was encountered understand that this plan of work must receive approva	ed.	,
Company Mountain Fuel Supply Company		
	00 01	
Address P. 0 Box 1129	By B.W. Ceoft	

producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.

Form	OGCC-1
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(SUBMIT IN DUPLICATE)

STATE OF UTAH OIL & GAS CONSERVATION COMMISSION

SALT LAKE CITY, UTAH

LAND:	0.
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State	i X1
Lease No. ML	0889

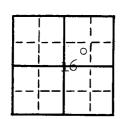
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Lease No	
Indian	
Lease No	

SUNDRI	NUTICES A.	ND REPORTS ON	WELLS
Notice of Intention to Drill		Subsequent Report of Wa	iter Shut-off
Notice of Intention to Change 1			ering Casing
Notice of Intention to Redrill o		Subsequent Report of Rec	drilling or Repair
Notice of Intention to Pull or A		Supplementary Well Hist	ory
Notice of Intention to Abandon	Well		
(int	CATE ABOVE BY CHECK MARK	NATURE OF REPORT, NOTICE, OR OTHER DATA)
Minnie Maud Utah State	Well No. 1	October 14	, 19 63
Well Nois loca	ted <u>1800</u> ft, from	(N) line and $\frac{1468}{1}$ ft. from	(E) XXXXXIIne of Sec. 16
NE SW NE sec. 16	128	13E	S. L. B. & M.
(¼ Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)
Minnie Maud area	Carbon		Utah
(Field)	(Cour	aty or Subdivision)	(State or Territory)
The elevation of the derrick fl	loor above sea level is	6766,60 feet	Q^{z}
			C)
A drilling and plugging bond	has been filed with	State of Utah	
			•••••
	DETAI	LS OF WORK	
(State names of and expected depth jobs, cementing points, and all other	ns to objective sands; she er important work, surfa	ow sizes, weights, and lengths of proceedings of ce formation, and date anticipate s	pposed casings; indicate mudding pudding-in.)
pressure tested satisfa a 2" stream of fresh wa	actorily. Resume ater was encoun t e	rface casing to 500 psig d drilling. Between dept red at an estimated rate e flow of formation water	ths of 1180' and 1310', of 10 BPH. The mud
Presently drilling at a	a depth of 2050'.		
I understand that this plan of work	must receive approval i	n writing by the Commission before	e operations may be commenced.
Company Mountain Fuel St	pply Company	·····	A
Address P. O. Box 1129	······	By B. W. Cas	f
•		Title General Manager.	Prod. & P. L. Divisions
		11016	w r. H. Divibions

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.

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(SUBMIT IN DUPLICATE)





STATE OF UTAH OIL & GAS CONSERVATION COMMISSION

SALT LAKE CITY, UTAH

LAND:	مر. ا
Fee and Patented State Utah Lease No. ML 10889	.X X X
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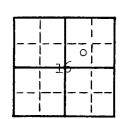
SUNDRY I	_			
Notice of Intention to Drill Notice of Intention to Change Planotice of Intention to Redrill or Notice of Intention to Pull or Alt Notice of Intention to Abandon V	ans Repairer Casing	Subseque Subseque Suppleme	ent Report of Alto ent Report of Rec entary Well Histo	ater Shut-offering Casingdrilling or Repairory
(INDIC	ATE ABOVE BY CHECK MARK	NATURE OF REPORT.	NOTICE, OR OTHER DATA	1
Utah State Well No. 1,				
Well Nol is locate	ed1800 ft. from	(N) New line and	1468 ft. from	i (E) line of Sec. 16
NE Sw NE sec. 16	12S (Twp.)	······	13E (Range)	S. I. B. & M. (Meridian)
Minnie Maud area	Carbo	n Inty or Subdivision)		Utah (State or Territory)
(State names of and expected depths	DETAI to objective sands; sh	LS OF WORK	(s, and lengths of pro	oposed casings: indicate muddin
A drilling and plugging bond hat (State names of and expected depths jobs, cementing points, and all other Depth 3157', drilling.	DETAI to objective sands; sh	LS OF WORK	(s, and lengths of pro	oposed casings: indicate muddin
(State names of and expected depths jobs, cementing points, and all other	DETAI to objective sands; sh	LS OF WORK	(s, and lengths of pro	oposed casings: indicate muddin
(State names of and expected depths jobs, cementing points, and all other	DETAI to objective sands; sh	LS OF WORK	(s, and lengths of pro	oposed casings: indicate muddin
(State names of and expected depths jobs, cementing points, and all other	DETAI to objective sands; sh	LS OF WORK	(s, and lengths of pro	oposed casings: indicate muddin
(State names of and expected depths jobs, cementing points, and all other	DETAI to objective sands; sh	LS OF WORK	(s, and lengths of pro	oposed casings: indicate muddin
(State names of and expected depths jobs, cementing points, and all other	DETAI to objective sands; sh	LS OF WORK	(s, and lengths of pro	oposed casings: indicate muddin
(State names of and expected depths jobs, cementing points, and all other	DETAI to objective sands; sh important work, surf	LS OF WORK	K s, and lengths of pro nd date anticipate sp	oposed casings; indicate muddin pudding-in.)
(State names of and expected depths jobs, cementing points, and all other Depth 3157', drilling.	DETAI to objective sands; sh important work, surfa nust receive approval	LS OF WORK now sizes, weights ace formation, ar in writing by the	s, and lengths of production of and date anticipate specific to the specific term of the specific terms of the	oposed casings; indicate muddin pudding-in.)
(State names of and expected depths jobs, cementing points, and all other Depth 3157', drilling.	DETAI to objective sands; sh important work, surfa must receive approval pply Company	LS OF WORK now sizes, weight, ace formation, an	s, and lengths of production of and date anticipate specific to the specific term of the specific terms of the	oposed casings; indicate muddin pudding-in.)

Forth DGCC-1

(SUBMIT IN DUPLICATE)

LAND:

JW.



STATE OF UTAH OIL & GAS CONSERVATION COMMISSION

SALT LAKE CITY, UTAH

Fee and Patented	
State Lease No. ML 1088	XXXX 9
Public Domain Lease No	_
Indian	.[]

SUNDRY NOTICES A	ND REPORTS ON WELLS			
Notice of Intention to Drill	Subsequent Report of Water Shut-off Subsequent Report of Altering Casing Subsequent Report of Redrilling or Repair Supplementary Well History			
(INDICATE ABOVE BY CHECK MARK)	NATURE OF REPORT, NOTICE, OR OTHER DATA)			
	October 28 , 1963 [N] line and 1468 ft. from $\{E\}$ line of Sec. 16			
NE SW NE sec. 16 12S (1/4 Sec. and Sec. No.) (Twp.)	13E S. L. B. & M. (Range) (Meridian)			
Keel Ranch (Formerly Minnie Maud) Ca	arbon Utah try or Subdivision) (State or Territory)			
The elevation of the derrick floor above sea level is	6766.60' feet.			
A drilling and plugging bond has been filed with	MATE - con			
DETAI	LS OF WORK			
(State names of and expected depths to objective sands; sho jobs, cementing points, and all other important work, surfa	ow sizes, weights, and lengths of proposed casings; indicate mudding ce formation, and date anticipate spudding-in.)			
The subject well is drilling at a depth	of 3973 feet.			
I understand that this plan of work must receive approval i	n writing by the Commission before operations may be commenced.			
Company Mountain FUel Supply Company	Δ			
AddressP0Box1129	By B Wilroft			
Rock Springs, Wyoming	Title General Manager, Producing and Pipeline Divisions			
INSTRUCTIONS: A plat or map must be attached to this	form showing the location of all leases property lines drilling and			

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.

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110

October 31, 1963

MEMO FOR FILING:

Re: Mountain Fuel Supply Company Keel Ranch State #1 Sec. 16, T. 12 S. R. 13 E., Carbon County, Utah

On October 30, 1963, it was observed while visiting the above mentioned location that the operator was drilling at 4200' in the North Horn member of the Wasatch Formation. Significant fresh water flows were encountered and subsequently shutoff with over 500' of surface casing. At the present time no further shows of gas or water have been found. This well is a proposed 8500' test for an Emery Sandstone pinch-out. It is possible that additional drilling may be made to test the deeper Ferron Formation.

A safety inspection was made and found satisfactory. The blowout preventor was tested and found in good working condition.

It should be noted that this well is situated in an unorthodox location and should be moved 20' south and 420' west. After checking the authenticity of this, it was discovered that an orthodox location could easily be staked.

Could bave been

PAUL W. BURCHELL CHIEF PETROLEUM ENGINEER

PWB:kgw

cc: Don Russell, Dist. Eng.,
U. S. Geological Survey
Salt Lake City, Utah

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Budget Bureau No. 42-R356.5. Approval expires 12-31-60

UNITED STATES

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LESSEE'S MONTHLY REPORT OF OPERATIONS

Agent's a	ddress			P.	O. Box 989		Comp	bany MOU	NTAIN FL	neely compan
Dl				Salt I	AKE CITY, UT.	AH	Signe	d	OFIT.	CHIEF ACCOUNTAI
Phone				T	328-8313	T	Agen			CHIEF ACCOUNTAL
SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL No.	DAYS PRODUCED	Barrels of Oil	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	(If drilling, depth; if shut do
SW, 16	12	13	1							Spudded 9/30/63 Dec. 31, 1963 Drilling at 6294
				: :						
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						-				

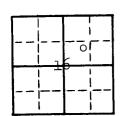
NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.



(SUBMIT IN DUPLICATE)

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STATE OF UTAH OIL & GAS CONSERVATION COMMISSION

SALT LAKE CITY, UTAH

Fee and Patented
State ML 10889
Lease No
Public Domain
Lease No
Indian
Lagge No

SUNDRY N	NOTICES AN	ND REPORTS ON	WELLS	
Notice of Intention to Drill		Subsequent Report of Water Shut-off Subsequent Report of Altering Casing Subsequent Report of Redrilling or Repair Supplementary Well History		
(INDIC	ATE ABOVE BY CHECK MARK N	ATURE OF REPORT, NOTICE, OR OTHER DATA)		
Keel Ranch Utah State W		November	<u>4</u> , 19 63	
Well No is locate	ed 1800 ft. from	(N) line and $1^{14}68$ ft. from	line of Sec. 16	
NE SW NE sec. 16	<u>12</u> S (Twp.)	13E (Rauge)	S. L. B. & M. (Meridian)	
Keel Ranch area (Field)	Carbon (Coun	ty or Subdivision)	Utah (State or Territory)	
The elevation of the derrick floor A drilling and plugging bond has (State names of and expected depths jobs, cementing points, and all other The subject well is drived of which was picked from	DETAIL s to objective sands; she important work, surfa	LS OF WORK ow sizes, weights, and lengths of proce formation, and date anticipate sp n of 4623° in the Price F	pposed casings; indicate mudding budding-in.)	
I understand that this plan of work Company Mountain Fuel S Address P. O. Box 1129 Rock Springs, W	upply Company		Producing & Pipeline	
INCTRICTIONS. A plat or man	must be attached to this	s form showing the location of all le	Divisions eases, property lines, drilling and	

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.

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STATE OF UTAH OIL & GAS CONSERVATION COMMISSION

SALT LAKE CITY, UTAH

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Fee and Patented[3
State Utah	XX
State Utah [Lease No. ML 10889]	-
Public Domain[-
Lease No	
Indian[
Lease No	

	AND F		
Notice of Intention to Drill	Sul Sul Su	osequent Report of Alte osequent Report of Red oplementary Well Histo	ter Shut-off
(INDICATE ABOVE BY CHECK	MARK NATURE OF I	REPORT, NOTICE, OR OTHER DATA)	
Keel Ranch Utah State No. 1	******	November 27	, 19 .63
Well No. 1 is located 1800 ft. f	om (N) lin	e and $\frac{1468}{}$ ft. from	(E) line of Sec. 16
NE SW NE sec. 16 125 (1/4 Sec. and Sec. No.) (Twp.)	************	13E (Range)	S. L. B. & M. (Meridian)
Keel Ranch area Car	On (County or Subdiv		Itah (State or Territory)
The elevation of the derrick floor above sea le A drilling and plugging bond has been filed w DE (State names of and expected depths to objective sand jobs, cementing points, and all other important work,	thU	tah WORK weights, and lengths of pro	posed casings; indicate muddi
· ·	surface forma	tion, and date anticipate sp	udding-in.)
Depth 5832', drilling.	surrace Torma	tion, and date anticipate sp	nudaing-in.)
	mation, I) ½ hour, ISI ½ hou v on final opening.	ur, Fo l hour, FSI l/
Depth 5832', drilling. DST #2: 5716'-5744', Blackhawk fo hour, fair blow on initial opening Recovered 180' mud. IHP 3042 psi,	mation, I) ½ hour, ISI ½ hou v on final opening.	ur, Fo l hour, FSI l/
Depth 5832', drilling. DST #2: 5716'-5744', Blackhawk fo hour, fair blow on initial opening Recovered 180' mud. IHP 3042 psi, FSIP 223 psi, FHP 3042 psi. I understand that this plan of work must receive approximately approximately mountain Fuel Supply Company. Mountain Fuel Supply Company.	mation, Ioweak blow ISIP 426 per	$0 \frac{1}{2}$ hour, ISI $\frac{1}{2}$ houvening, on final opening, psi, IOFP's $36-54$ graphs by the Commission before	ur, Fo l hour, FSI l/ no gas to surface. osi, FOFP's 54-72 psi
Depth 5832', drilling. DST #2: 5716'-5744', Blackhawk fo hour, fair blow on initial opening Recovered 180' mud. IHP 3042 psi, FSIP 223 psi, FHP 3042 psi.	mation, Ionation, Ionation	D ½ hour, ISI ½ hou w on final opening, psi, IOFP's 36-54 p	ur, Fo l hour, FSI l/ no gas to surface. osi, FOFP's 54-72 psi

m showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.



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		DUPLICATE)

			STATE OF UTAH	
OIL	&	GAS	CONSERVATION	COMMISSION
			SALT LAKE CITY, UTA	н

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Fee and Patented
State X Lease No. MI 10889
Public Domain
Indian

			Lease No
SUNDRY NO	TICES AN	D REPORTS C	ON WELLS
Notice of Intention to Drill		Subsequent Report of	Water Shut-off
Notice of Intention to Change Plans		Subsequent Report of	Altering Casing
Notice of Intention to Redrill or Repa	air		Redrilling or Repair
Notice of Intention to Pull or Alter C		1	HistoryX
Notice of Intention to Abandon Well.			
(INDICATE AI	BOVE BY CHECK MARK NA	URE OF REPORT, NOTICE, OR OTHER	
Keel Ranch Area		Nove	mber 18 , 19 ⁶ 3
Well No. Utah State#lis located 1	800 ft. from XX	XXX line and $\frac{1468}{1}$ ft. f	from $\{\mathbf{E}\}$ line of Sec. 16
NE SW NE sec. 16	12S	13E	S. L. B. & M.
(¼ Sec. and Sec. No.)	(Twp.)	(Range)	(
Keel Ranch area	Carbon	or Subdivision)	(State or Territory)
(State names of and expected depths to o jobs, cementing points, and all other important the subject well is drilling the past week.	bjective sands; show ortant work, surface	formation, and date anticips	ate spudding-in.)
I understand that this plan of work must Company Mountain Fuel Suppl	y Company		pefore operations may be commenced.
Addressp0Box.1129			1
	6	ine deneral manaf	ger, Producing and Pipeline Divisions

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.

Juny 44. 8

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(SUBMIT IN	DUPLICATE)

	STATE OF UTAH	
OIL & GA	S CONSERVATION	COMMISSION

SALT LAKE CITY, UTAH

Fee and	Pat	ented	
State		IJtah	X
Lease	No.	ML. 108	89
Public I	oma	in	
Lease	No.		

Indian

LAND:

SUNDRY N	NOTICES AN	D Ital Olice	
Totice of Intention to Drill	ans Repairer Casing	Subsequent Report of Alt Subsequent Report of Re Supplementary Well Hist	ater Shut-offering Casingedrilling or Repairetory
(INDIC	ATE ABOVE BY CHECK MARK NA	TURE OF REPORT, NOTICE, OR OTHER DATA	A)
Keel Ranch Utah State			<u>, 19.63</u>
Well Nol is locate	ed $\frac{1800}{}$ ft. from	N line and 1468 ft. from	n (E) line of Sec. 16
NE SW NE sec. 16 (1/4 Sec. and Sec. No.)	(Twp.)	(Kange)	(1/2010220)
Keel Ranch area	Carbon	y or Subdivision)	Jtah (State or Territory)
	DETAIL	Utah S OF WORK w sizes, weights, and lengths of p	
(State names of and expected depths jobs, cementing points, and all other Depth 6288', drilling. DST #3: 6205'-6224', Stahour, strong blow through IHP 3162 psi, ISIp 507 psi	DETAIL s to objective sands; show important work, surface ar Point formation hout both opening	S OF WORK w sizes, weights, and lengths of p e formation, and date anticipate on, IO $\frac{1}{2}$ hour, ISI $\frac{1}{2}$ hous, no gas to surface.	roposed casings; indicate mudding spudding-in.) ur, FO 1 hour, FSI $\frac{1}{2}$ Recovered 30 mud.
(State names of and expected depths jobs, cementing points, and all other Depth 6288', drilling. DST #3: 6205'-6224', State hour, strong blow through	DETAIL s to objective sands; show important work, surface ar Point formation hout both opening si, IOFP's 20-20	s of work w sizes, weights, and lengths of p e formation, and date anticipate on, IO ½ hour, ISI ½ hour, ss, no gas to surface. psi, FPFP's 20-20 psi,	roposed casings; indicate mudding spudding-in.) ur, FO 1 hour, FSI ½ Recovered 30 mud. FSIP 446 psi, FHHP
(State names of and expected depths jobs, cementing points, and all other Depth 6288', drilling. DST #3: 6205'-6224', Stahour, strong blow through THP 3162 psi, ISIp 507 pages 3162 psi.	DETAIL s to objective sands; show important work, surface ar Point formation hout both opening si, IOFP's 20-20	s of work w sizes, weights, and lengths of p e formation, and date anticipate on, IO ½ hour, ISI ½ hours, no gas to surface. psi, FPFP's 20-20 psi, m writing by the Commission before	roposed casings; indicate mudding spudding-in.) ur, FO 1 hour, FSI ½ Recovered 30 mud. FSIP 446 psi, FHHP
(State names of and expected depths jobs, cementing points, and all other Depth 6288¹, drilling. DST #3: 6205¹-6224¹, Stahour, strong blow through IHP 3162 psi, ISIp 507 pages 3162 psi. I understand that this plan of work	DETAIL s to objective sands; show important work, surface ar Point formation hout both opening si, IOFP's 20-20 must receive approval imply Company	s of work w sizes, weights, and lengths of p e formation, and date anticipate on, IO ½ hour, ISI ½ hours, no gas to surface. psi, FPFP's 20-20 psi, m writing by the Commission before	roposed casings; indicate mudding spudding-in.) ur, FO 1 hour, FSI ½ Recovered 30 mud. FSIP 446 psi, FHHP

producing wells, within an area of sufficient size so that the Commission may determ forms to applicable rules, regulations and orders.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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LAND	Office		· · · · · · · · · · · · · · · · · · ·	
UNIT .	Kee!	Ranch	Area	
Por	erly	Minnie	Maud)	

LESSEE'S MONTHLY REPORT OF OPERATIONS

į	State					nty Carb							
,	T wells) f	he fo	ollowin e mon	g is th of	a corre	ect report of 19 63	f opera	tions and pa 19,	roduction	(including	drilling	and produc	ing
	Agent's a	ddress			P.	O. Box 989		Com_1	pany MOU	NTAIN FU	EL SUPI	PLY COMPAI	NY
					SALT 1	Lake City, Ut	AH	Signe	d	シンド	112	eky	-
i	Phone		·			328-8315		Agen	t's title [IVISIONAI	. CHIEF	ACCOUNTA	NT
;	SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL No.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	Cu. Ft. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	(If drilling cause; date	REMARKS	wn for
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	. SW 2 16	12	13	1								ad 9/30/63 30, 1963	ļ
		·										ing at 593	*
					:								
	Not	E.—Th	ere wer	e		1	runs or	sales of oil;			M	I cu, ft. of gas	sold

Form 9-329 (January 1950) (SUBMIT IN DUPLICATE)

LAND:

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STATE OF UTAH OIL & GAS CONSERVATION COMMISSION

SALT LAKE CITY, UTAH

Fee and Patented
Public Domain
Indian

Notice of Intention to Drill Notice of Intention to Change Plan Notice of Intention to Redrill or Re Notice of Intention to Pull or Alter Notice of Intention to Abandon We	epairr Casing		Subsequent Report Subsequent Report Subsequent Report Supplementary We	of Alter t of Redr ell Histor	ring Casingrilling or Repair ry	
(INDICATI	E ABOVE BY CHECK MARK	NATUR	E OF REPORT, NOTICE, OR OT	THER DATA)		
Keel Ranch Utah State We	ell No. 1	-	December 3	3		, 1963
Well Nois located	1800 ft. from	(N)	$_{ m X}$ line and 1468 f	ft. from	ine of Sec.	16
NE SW NE sec. 16 (1/4 Sec. and Sec. No.)	12S (Twp.)		13E (Range))	S. L (Meridian	& B. M.
Keel Ranch area			Subdivision)		Utah (State or Territory)	
(State names of and expected depths to	DETAI o objective sands; sh	LS (OF WORK izes, weights, and length	hs of prop	posed casings; indica	te mudding
A drilling and plugging bond has (State names of and expected depths to jobs, cementing points, and all other in The subject well is drilling dril	DETAI o objective sands; sh mportant work, surfa	LS (low si ace fo	OF WORK izes, weights, and lengtlormation, and date anti	hs of prop	posed casings; indica	te mudding
(State names of and expected depths to	DETAI o objective sands; sh mportant work, surfa	LS (low si ace fo	OF WORK izes, weights, and lengtlormation, and date anti	hs of prop	posed casings; indica	te mudding
(State names of and expected depths to jobs, cementing points, and all other in	DETAI o objective sands; sh mportant work, surfa	LS (low si ace fo	OF WORK izes, weights, and lengtlormation, and date anti	hs of prop	posed casings; indica	te mudding
(State names of and expected depths to jobs, cementing points, and all other in	DETAI o objective sands; sh mportant work, surfa	LS (low si ace fo	OF WORK izes, weights, and lengtlormation, and date anti	hs of prop	posed casings; indica	te mudding
(State names of and expected depths to jobs, cementing points, and all other in	DETAI o objective sands; sh mportant work, surfa	LS (low si ace fo	OF WORK izes, weights, and lengtlormation, and date anti	hs of prop	posed casings; indica	te mudding
(State names of and expected depths to jobs, cementing points, and all other in	DETAI o objective sands; sh mportant work, surfa	LS (low si ace fo	OF WORK izes, weights, and lengtlormation, and date anti	hs of prop	posed casings; indica	te mudding
(State names of and expected depths to jobs, cementing points, and all other in	DETAI o objective sands; sh mportant work, surfa	LS (low si ace fo	OF WORK izes, weights, and lengtlormation, and date anti	hs of prop	posed casings; indica	te mudding
(State names of and expected depths to jobs, cementing points, and all other in	DETAI o objective sands; sh mportant work, surfa lling at a dep	LS (now since for the co	OF WORK izes, weights, and length ormation, and date antipof 60501.	ths of prop icipate spo	posed casings; indica udding-in.)	
(State names of and expected depths to jobs, cementing points, and all other in The subject well is dri	DETAI o objective sands; sh mportant work, surfa lling at a dep	in w	OF WORK izes, weights, and length ormation, and date anti- of 60501.	ths of propicipate spot	posed casings; indica udding-in.)	commenced.
(State names of and expected depths to jobs, cementing points, and all other in The subject well is drift of the subject well in the subject well is drift of the subject well in the	DETAI o objective sands; sh mportant work, surfa lling at a dep ust receive approval	in w	OF WORK izes, weights, and length ormation, and date antipof 60501.	ths of propicipate spot	posed casings; indica udding-in.)	commenced.

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.

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(SUBMIT IN DUPLICATE)

LAND:

STATE OF UTAH OIL & GAS CONSERVATION COMMISSION

SALT LAKE CITY, UTAH

Fee and Patented	ŽΙΧ
Public Domain	_
Indian[3

Lease No.

SUNDRY N	OTICES AN	D REPORTS O	N WELLS
Notice of Intention to Drill	epair	Subsequent Report of A Subsequent Report of I Supplementary Well H	Water Shut-off
(INDICATI	E ABOVE BY CHECK MARK NA	TURE OF REPORT, NOTICE, OR OTHER D	ATA)
Keel Ranch Utah State	No. 1	December	16 19 63
Well No is located			,
NE SW NE sec. 16 (1/4 Sec. and Sec. No.)	125	13E	S. L. B. & M.
Keel Ranch area			
(Field)	(County	or Subdivision)	(State or Territory)
(State names of and expected depths to jobs, cementing points, and all other in The subject well is drill:	nportant work, surface	formation, and date anticipate	e spudding-in.)
DST #5: 6340'-6490', Starstrong blow through initial minutes; 45 minutes gauge Mcf. Recovered 267' slight psi, FOFP's 91-146 psi, FOFT #6: 6570'-6631', Management of Mana	al opening, no go of 5.32 Mcf, 60 so that y gas cut much sIP 1238 psi, From 10 $\frac{1}{2}$ hour, as up. On final end of test.	gas up. On final operand 75 minutes 6.33 Mal. IHP 3257 psi, ISII IP 3239 psi. ISI $\frac{1}{2}$ hour, FO $1\frac{1}{2}$ hour opening, gas up in Recovered 90' gas cut	ning, gas up in 35 cf, and 90 minutes 5.32 P 1129 psi, IOFP's 55-73 ars, FSI $1\frac{1}{2}$ hours, 15 minutes at 5.26 Mcf, mud. ThP 3450 psi,
I understand that this plan of work mu Company Mountain Fuel Supp		writing by the Commission be	fore operations may be commenced.
Address P O Box . 1129		By B.W. Goft	
·····Rock-Springs, Wyon	ning	Title General Manager	r, Producing and Pipeline Division

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.

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Form OGCC-1 a

SUNDRY NOTICES & REPORTS

Lapy H. K. M.

(Other instructions on

SUBMIT IN TRIPLICATE*

-	S T A T E	OF UTAH			reverse sid			
OIL	& GAS CONSER	VATION CO	MMIS	SSION			5. LEASE DESIGNATI	
		:					Utah ML 108	·
APPLICATION	HXRORXRERMIN		DEEP	ANXXXXXX	XVGXB	AXXX		
DR	LL SUPPLEMEN' WELL HIST	IARY DEEPEN		PLU	IG BAC	к 🗆 📑	7. UNIT AGREEMENT	NAME
OIL C	AS WELL HIST	OILT •		NGLE	MULTIPL ZONE	.rs 🔲 📑	8. FARM OR LEASE	NAME
NAME OF OPERATOR							Keel Ranc	h Area
	Fuel Supply Co	ompany					9. WELL NO.	4-4- M- 3
ADDRESS OF OPERATOR	7700 D- 1- 0-	T.T				_	Utan S 10. field and Pool	tate No. 1
LOCATION OF WELL (R	x 1129, Rock Seport location clearly an	d in accordance wi	th any S	state requiremen	its.*)		Wildcat	
At surface	. 16-12 5 -13E.,	Carbon Cou	stv.	Utah			11. SEC., T., R., M., (AND SURVEY OR	R BLK.
At proposed prod. zor	- ·		J				16–12 5–1 gE	, SL&BM
. DISTANCE IN MILES	AND DIRECTION FROM NE.	AREST TOWN OR POS	T OFFIC	E.			12. COUNTY OR PARI	SH 13. STATE
				· · · · · · · · · · · · · · · · · · ·			Carbon	Utah
5. DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE LII (Also to nearest dele	osed* 1800 F. Tr 1800 F. (E, FT.	NL, 1468 ^t ec. 16	16. NO	O. OF ACRES IN	LEASE		ACRES ASSIGNED IS WELL -	
PROPERTY OR LEASE LINE, FT. (Also to nearest drig. line, if any) 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED,		19. PI	ROPOSED DEPTH		20. ROTAR	ARY OR CABLE TOOLS		
OR APPLIED FOR, ON THIS LEASE, FT.			1	-	L	-	22. APPROX. DATE WORK WILL START	
•	ether DF, RT, GR, etc.)						22. AFFROX. DAIL	WORK WILL START
Derrick floo		PROPOSED CASI	NG AN	O CEMENTING	PROGRA	м		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	T00T	SETTING DI	ЕРТН		QUANTITY OF CE	MENT
						<u> </u>		
The subject v	vell is drillin	g at a dept	h of	75451.				
initial blow	O'-7545', Emery ; weak final bl , IOFP's 37-37	ow, no gas	to si	ırface.´ I	Recover	red 30°	mud. IHP 4	109 psi,
ABOVE SPACE DESCRIB ne. If proposal is to eventer program, if an	^	nally, give pertinen	t data Ge:	plug back, give on subsurface lo neral Mana d Pipeline	ager, I	d measured Produci	and true vertical de	epths. Give blowd
(This space for Federal	eral or State office use)							
PERMIT NO.				APPROVAL DATE				
APPROVED BY		ТІ	TLE				DATE	

CONDITIONS OF APPROVAL, IF ANY:



Form OGCC-1 b.

STATE OF UTAH

SUBMIT	IN	TRIPL	ICA'	re*
(Other i	nstr	uctions	on	re-

 M	タナ

OIL & GAS CON	SERVATION COMMISSI	(Other instructions on re-	5. LEASE DESIGNATION	AND SERIAL NO.
	TICES AND REPORTS		ML 10889 6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
(Do not use this form for prop Use "APPLIC	osals to drill or to deepen or plug CATION FOR PERMIT—" for such p	pack to a different reservoir.		
1. OIL GAS			7. UNIT AGREEMENT NA	ME
WELL WELL OTHER	Wildcat		Lease	
2. NAME OF OPERATOR	_		8. FARM OR LEASE NAM	
Mountain Fuel Supply	r Company		Keel Ranch a:	rea
P. O. Box 1129, Rock	Springs Wyoming		Utah Sta t e	No 1
4. LOCATION OF WELL (Report location		State requirements.*	10. FIELD AND POOL, OF	
See also space 17 below.) At surface			Wildcat	
NE SW NE, 1800' FNL,	1468' FEL sec. 16.		11. SEC., T., R., M., OR B SURVEY OR AREA	LK. AND
			16-12S-13E	
14. PERMIT NO.	15. ELEVATIONS (Show whether DE	PT CP etc.)	12. COUNTY OR PARISH	13. STATE
TI. IERMII NO.	6768.351 KBM	, M, GR, ECC.)	Carbon	Utah
				1 000.11
16. Check A	Appropriate Box To Indicate N	Nature of Notice, Report, or C	Other Data	
NOTICE OF INTE	ENTION TO:	SUBSEQU	ENT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING W	ELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CA	SING
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDONMEN	
REPAIR WELL (Other)	CHANGE PLANS	(Other) Supplement (NOTE: Report results	of multiple completion of	on Well
17. DESCRIBE PROPOSED OR COMPLETED OF proposed work. If well is direct	PERATIONS (Clearly state all pertinen		etion Report and Log for including estimated date	
proposed work. If well is direct nent to this work.)*	tionally drilled, give subsurface loca	tions and measured and true vertica	d depths for all markers	and zones perti-
drill stem test No.	at a depth of 8140', 9 of the interval from	om 8097' to 8140'.		
$\frac{1}{2}$ hour, strong initigauged 18 Mcf in 10	, Mancos formation, I lal blow, gas up in 6 minutes, decreasing to si, ISIP 567 psi, IOE	minutes, no gauge tak so 2 Mcf at end of tes	ten; on final of t. Recovered	pening, 30' gas
		·	minter affirm	
12-31-63		`		
I talked with Mr. B. V	· · · · · · · · · · · · · · · · · · ·			
Fuel Supply and he sta				
said there was no need Confidential.	to keep this file			
Confidential.				
CLAR	ELLA N. PECK			
		100		
18. I hereby certify that the foregoing	is true and correct			
SIGNED B.W. Ceofs	∡ Ger	meral Manager, Produci Pipeline Divisions	_	0,1963
(This space for Federal or State of	ffice use)			
APPROVED BYCONDITIONS OF APPROVAL, IF	ANY:		DATE	

Lyng H. L. C.

		TATE OF UTAH			TE*		
OTI 1	e cas con	SERVATION C	OMMISSION	(Other instructions on verse side)	7e- 5. LE	ASE DESIGNATION	AND SERIAL NO.
OIL	x GAS COI	VODIC (11 1 1 2 2)				/L 10889	
CLI	NIDBY NC	TICES AND RE	POPTS ON	I WELLS	6. IF	INDIAN, ALLOTTEE	OR TRIBE NAME
(Do not use th	nis form for pro	posals to drill or to dec	epen or plug back	to a different reservoir.			
(Use "APPLI	CATION FOR PERMIT	—" for such propo	sals.)		VIT AGREEMENT NAM	IT ID
OIL GAS	<u></u>				_		
WELL WELL		Wildcat			1	RM OR LEASE NAM	E
NAME OF OPERATOR		_			1		
Mountain F		Company				el Ranch ar	ea
		C			l t	Jtah State	No. 1
LOCATION OF WELL	(Report location	Springs, Wyon clearly and in accorda	nce with any Sta	te requirements.*		TELD AND POOL, OR	
See also space 17 At surface	below.)			•		Wildcat	
NE SW NE,	1800' FNL,	1468' FEL of	sec. 16		11. 8	SURVEY OR AREA	LK. AND
		•				5-12 S- 13 E	
PERMIT NO.		15. ELEVATIONS (Sh	ow whether DF, RT,	GR, etc.)	12. 0	COUNTY OR PARISH	13. STATE
		квм 6768.3	5 t		Car	rbon	Utah
	Charle	Appropriate Roy To	Indicate Nati	ure of Notice, Report,	or Other I	Data	
			, marcare i vari		BSEQUENT RI		
	NOTICE OF INT	TENTION TO:		30.			[]
TEST WATER SHU	T-OFF	PULL OR ALTER CASIN	G	WATER SHUT-OFF		REPAIRING W	
FRACTURE TREAT		MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CA	
SHOOT OR ACIDIZE	·	ABANDON*		SHOOTING OR ACIDIZING		history	
REPAIR WELL		CHANGE PLANS		(Other) Supple	sults of mu	ltiple completion of	on Well
				(NOTE: Report re			
(Other) DESCRIBE PROPOSEI	OR COMPLETED (OPERATIONS (Clearly sta	te all pertinent de	Completion or Rec	completion E	teport and Log for	of starting at
DESCRIBE PROPOSEI proposed work, nent to this work	if well is dire	OPERATIONS (Clearly state ctionally drilled, give state state)	ibsurface locations	Completion or Re- etails, and give pertinent 6 s and measured and true v	completion E	teport and Log for	of starting ar
DESCRIBE PROPOSEI proposed work. nent to this worl. The subjec DST #9: 8 blow, gas 15 minutes IHP 5000 p FHP 4943 p	t well is direk.)* t well is direk.)* 097'-8140' up immedia , decreasi si, ISIP 3	trilling at a control of $\frac{1}{2}$ hour, at the state of $\frac{1}{2}$ hour, and the state of $\frac{1}{2}$	depth of 90 ISI ½ hour, e taken. (Mcf gas per s 324-171	Completion or Receivally, and give pertinent of sand measured and true via 1.9° . FO $1\frac{1}{2}$ hours, For final opening day at end of psi, FOFP's 229	SI 1½ ho, gaugeotest.	ing estimated date has for all markers ours, stron d 1233 Mcf Recovered 1	g initial gas in 95° mud.
DESCRIBE PROPOSEI proposed work. nent to this worl The subject DST #9: 8 blow, gas 15 minutes IHP 5000 p FHP 4943 p DST #10: gas up in not enough	t well is direk.)* t well is direk.)* to well is direk. 097'-8140' up immedia , decreasi si, ISIP 3 si. 8945'-8965 19 minutes to gauge.	trilling at a constitution of $\frac{1}{2}$ hour, it to $\frac{1}{2}$ hour, it to $\frac{1}{2}$ hour, it is a constitution of $\frac{1}{2}$ hour, it is a constitution of $\frac{1}{2}$ hour, in the enough is a Recovered 10	depth of 90 ISI ½ hour, e taken. (Mcf gas per 's 324-171 ISI 45 mir to gauge. 80' gas cut	Completion or Receivable and give pertinent of s and measured and true version of $\frac{1}{2}$ hours, For $\frac{1}{2}$ hours, For final opening of day at end of	SI 1½ ho gauged test. I ly ps:	ours, strond 1233 Mcf Recovered 1 i, FSIP 326 hour, stro	g initial gas in 95° mud. O psi, mg blow, w of gas,
DESCRIBE PROPOSEI proposed work. nent to this worl The subject DST #9: 8 blow, gas 15 minutes IHP 5000 p FHP 4943 p DST #10: gas up in not enough	t well is direk.)* t well is direk.)* to well is direk. 097'-8140' up immedia , decreasi si, ISIP 3 si. 8945'-8965 19 minutes to gauge.	trilling at a constitution of $\frac{1}{2}$ hour, it to $\frac{1}{2}$ hour, it to $\frac{1}{2}$ hour, it is a constitution of $\frac{1}{2}$ hour, it is a constitution of $\frac{1}{2}$ hour, in the enough is a Recovered 10	depth of 90 ISI ½ hour, e taken. (Mcf gas per 's 324-171 ISI 45 mir to gauge. 80' gas cut	Completion or Receivable and give pertinent of sand measured and true version of 12 hours, Figure 12 hours, Figure 13 hours, For 1 hour on final opening mud. IHP 5739	SI 1½ ho gauged test. I ly ps:	ours, strond 1233 Mcf Recovered 1 i, FSIP 326 hour, stro	g initial gas in 95° mud. O psi, ng blow w of gas
DESCRIBE PROPOSEI proposed work. nent to this worl The subject DST #9: 8 blow, gas 15 minutes IHP 5000 p FHP 4943 p DST #10: gas up in not enough	t well is direk.)* t well is direk.)* to well is direk. 097'-8140' up immedia , decreasi si, ISIP 3 si. 8945'-8965 19 minutes to gauge.	trilling at a constitution of $\frac{1}{2}$ hour, it to $\frac{1}{2}$ hour, it to $\frac{1}{2}$ hour, it is a constitution of $\frac{1}{2}$ hour, it is a constitution of $\frac{1}{2}$ hour, in the enough is a Recovered 10	depth of 90 ISI ½ hour, e taken. (Mcf gas per 's 324-171 ISI 45 mir to gauge. 80' gas cut	Completion or Receivable and give pertinent of sand measured and true version of 12 hours, Figure 12 hours, Figure 13 hours, For 1 hour on final opening mud. IHP 5739	SI 1½ ho gauged test. I ly ps:	ours, strond 1233 Mcf Recovered 1 i, FSIP 326 hour, stro	g initial gas in 95° mud. O psi, mg blow, w of gas,
DESCRIBE PROPOSEI proposed work. nent to this worl. The subject DST #9: 8 blow, gas 15 minutes IHP 5000 p FHP 4943 p DST #10: gas up in not enough IOFP's 47-	t well is directly to the series of the seri	trilling at a constitution of $\frac{1}{2}$ hour, it to $\frac{1}{2}$ hour, it to $\frac{1}{2}$ hour, it is a constitution of $\frac{1}{2}$ hour, it is a constitution of $\frac{1}{2}$ hour, in the enough is a Recovered 10	depth of 90 ISI ½ hour, e taken. (Mcf gas per 's 324-171 ISI 45 mir to gauge. 80' gas cut psi, FSIP	Completion or Receptables, and give pertinent of and measured and true video of the control of t	SI 1½ ho, gauged test. If yeak psi, If yeak psi, If yeak ducing	ours, strond 1233 Mcf Recovered 1 i, FSIP 326 hour, stronsteady blo SIP 258 psi	g initial gas in 95° mud. O psi, m g blow, w of gas,
DESCRIBE PROPOSEI proposed work. nent to this worl. The subject DST #9: 8 blow, gas 15 minutes IHP 5000 p FHP 4943 p DST #10: gas up in not enough IOFP's 47-	t well is directly to the series of the seri	trilling at a control of $\frac{1}{2}$ hour, at the property of the following to to 670: 3805 psi, IOFP $\frac{1}{2}$ hour, $\frac{1}{2}$	depth of 90 ISI ½ hour, e taken. (Mcf gas per 's 324-171 ISI 45 mir to gauge. 80' gas cut psi, FSIP	Completion or Receivable and give pertinent of and measured and true volume. FO 1½ hours, Figure 1½ hours, Figure 229 hours, FOFP's 229 hours, FO 1 hour On final opening 235 psi, FHP 560	SI 1½ ho, gauged test. If yeak psi, If yeak psi, If yeak ducing	ours, strond 1233 Mcf Recovered 1 i, FSIP 326 hour, stro	g initial gas in 95° mud. O psi, mg blow, w of gas,
DESCRIBE PROPOSEI proposed work. nent to this worl. The subject DST #9: 8 blow, gas 15 minutes IHP 5000 p FHP 4943 p DST #10: gas up in not enough IOFP's 47-	t well is directly and the state of the stat	rilling at a of the following to to 670 at the following to the following to the following to the following the follo	depth of 90 ISI ½ hour, e taken. (Mcf gas per 's 324-171 ISI 45 mir to gauge. 80' gas cut psi, FSIP	Completion or Receptables, and give pertinent of and measured and true video of the control of t	SI 1½ ho, gauged test. If yeak psi, If yeak psi, If yeak ducing	ours, strond 1233 Mcf Recovered 1 i, FSIP 326 hour, stronsteady blo SIP 258 psi	g initial gas in 95° mud. O psi, mg blow, w of gas,
DESCRIBE PROPOSEI proposed work. nent to this worl. The subject DST #9: 8 blow, gas 15 minutes IHP 5000 p FHP 4943 p DST #10: gas up in not enough IOFP's 47-	t well is direk.)* t well is do 097'-8140' up immedia , decreasi si, ISIP 3 si. 8945'-8965 19 minutes to gauge. 117 psi, F	rilling at a of the following to to 670 at the following to the following to the following to the following the follo	depth of 90 ISI ½ hour, e taken. (Mcf gas per 's 324-171 ISI 45 mir to gauge. 80' gas cut psi, FSIP	Completion or Receptables, and give pertinent of and measured and true video of the control of t	SI 1½ ho, gauged test. If yeak psi, If yeak psi, If yeak ducing	ours, strond 1233 Mcf Recovered 1 i, FSIP 326 hour, stronsteady blo SIP 258 psi	g initial gas in 95° mud. O psi, mg blow, w of gas,



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UTAH	SUBMIT IN TRIPLICATE*

Plug No. 3: Plug No. 4: Plug No. 5: Plug No. 6: Plug No. 7: A regulation	4450'-42 2550'-23 1060'-86 634'-431 4 sax cen abandonme mouse a	for, 62 sax c if, 117 sax c ement into to ment marker w and rat holes true and correct	ement ement p of surfa ill be ins will be p	talled and the lugged. I Manager, Produce ine Divisions	lucing and	1	and 10, 1964
Plug No. 1: Plug No. 2: Plug No. 3: Plug No. 4: Plug No. 5: Plug No. 6: Plug No. 7: A regulation cleaned. The	4450'-42 2550'-23 1060'-86 634'-431 4 sax cen abandonme mouse a	50°, 62 sax c +°, 117 sax c ement into to ment marker w and rat holes	ement ement p of surfa ill be ins will be p	talled and the lugged.	lucing and	1	
Plug No. 1: Plug No. 2: Plug No. 3: Plug No. 4: Plug No. 5: Plug No. 6: Plug No. 7: A regulation cleaned. Tr	4450:-42 2550:-23 1060:-86 634:-431 4 sax cen abandonm	60°, 62 sax c +°, 117 sax c ement into to ment marker w and rat holes	ement ement p of surfa ill be ins will be p	talled and the lugged.			and
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and/or gas p like permiss was orally a	production sion to pl approved h isher. 82001-80	n. The well ug and aband	was bottom on this we aul Burche cement	th of 9182' with ed in the Manco	s formati wing mann	on. We er, which	would ch
(Other) 7. DESCRIBE PROPOSED OR proposed work. If nent to this work.)*	COMPLETED OPER well is direction	NATIONS (Clearly statemally drilled, give sul	e all pertinent de osurface locations	(Note: Report r (Completion or Re ails, and give pertinent and measured and true	ecompletion Rep	ort and Log I	orm.)
FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL	M A	IULTIPLE COMPLETE BANDON* HANGE PLANS	XX	FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other)		ALTERING ABANDONM	ENT*
NO TEST WATER SHUT-OFI	OTICE OF INTENT	TION TO:		SUWATER SHUT-OFF	UBSEQUENT REPO	RT OF:	WELL.
3.	Check Ap	propriate Box To	Indicate Natu	e of Notice, Report,	or Other Do	ıta	
name to the same t		67 6 8.35° к	BM		Cart	on	Utah
. PERMIT NO.		15. ELEVATIONS (Sho	w whether DF, RT,	gr, etc.)		12S-13E	н 13. ятате
At surface		468' FEL of	sec. 16		11. SEC	dcat ., t., r., m., or urvey or are	
P. O. Box 11 LOCATION OF WELL (Re See also space 17 below	29, Rock	Springs, Wyo	ming ce with any Stat	e requirements.*	10. FIE	h State	
Mountain Fue	el Supply	Company			9. WELI		
OIL GAS WELL NAME OF OPERATOR	OTHER	Wildcat				OR LEASE NA	
	orm for proposa Use "APPLICA"	ls to drill or to deep FION FOR PERMIT	en or plug back	o a different reservoir.	7. UNIT	AGREEMENT N	AME
(Do not use this fo	NOV NICTE	CES AND REI		WELLS	1	te ML 10	0889 se or tribe nax
SUND	AS CONSI	ERVATION CC	IM MITSSION	verse side)			N AND SERIAL NO

Japa H.X.E.

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R PARISH	13. s	tate tah		
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ated date 1 markers	of sta and z	arting ones p	any erti-	
54. Ce	emen	t		
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DATE _

	ATE OF UTAH	SUBMIT IN TRIPLICATE*	
OIL & GAS CON	SERVATION COMMISSION	(Other instructions on reverse side)	5. LEASE DESIGNATION AND SERIAL NO. ML 10889
SUNDRY NO	TICES AND REPORTS ON INSIDE TO SEE THE PROPERTY OF THE PROPERT	N WELLS to a different reservoir.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Use "APPLIC	ATION FOR PERMIT— for such propo	isais.)	7. UNIT AGREEMENT NAME
OIL GAS OTHER	Wildcat		-
. NAME OF OPERATOR			8. FARM OR LEASE NAME
Mountain Fuel Suppl	y Company		Leel Ranch area
. ADDRESS OF OPERATOR			9. WELL NO.
P. O. Box 1129, Roc.	k Springs, Wyoming clearly and in accordance with any Sta	te requirements.*	Utah State No. 1 10. FIELD AND POOL, OR WILDCAT
See also space 17 below.) At surface		-	Wildcat
NE SW NE, 1800' FNL	, 1468' FEL of sec. 16		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
			16-12S-13E
4. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT	, GR, etc.)	12. COUNTY OR PARISH 13. STATE
land and	6768.35° KBM		Carbon Utah
Check A	ppropriate Box To Indicate Nat	ure of Notice, Report, or C	Other Data
NOTICE OF INTE	NTION TO:	SUBSEQU	ENT REPORT OF:
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDONMENT* XX
REPAIR WELL	CHANGE PLANS	(Other)	
(Other)	PERATIONS (Clearly state all pertinent d	(NOTE: Report results Completion or Recompl	of multiple completion on Well etion Report and Log form.) including estimated date of starting an
(Other) 7. DESCRIBE PROPOSED OR COMPLETED OF proposed work. If well is direct nent to this work.)* The well was plugged an plugs were laid as foll No. 1: 8200'-8000', 62 No. 2: 7000'-6 800', 62 No. 3: 4450'-4250', 62	d abandoned and the rigosacks. sacks. sacks. sacks.	(Note: Report results Completion or Recompl etails, and give pertinent dates, s and measured and true vertical	etion Report and Log form.) including estimated date of starting an il depths for all markers and zones perti
(Other) 17. DESCRIBE PROPOSED OR COMPLETED OF proposed work. If well is direct nent to this work.)* The well was plugged an plugs were laid as foll No. 1: 8200'-8000', 62 No. 2: 7000'-6 800', 62 No. 3: 4450'-4250', 62 No. 4: 2550'-2350', 62 No. 5: 1060'-860', 62	d abandoned and the rigons: sacks. sacks. sacks. sacks. sacks.	(Note: Report results Completion or Recompl etails, and give pertinent dates, s and measured and true vertical	etion Report and Log form.) including estimated date of starting an il depths for all markers and zones perti
(Other) 17. DESCRIBE PROPOSED OR COMPLETED OF proposed work. If well is direct nent to this work.)* The well was plugged an plugs were laid as foll No. 1: 8200'-8000', 62 No. 2: 7000'-6 800', 62 No. 3: 4450'-4250', 62 No. 4: 2550'-2350', 62 No. 5: 1060'-860', 62 No. 6: 634'-434', 117	d abandoned and the rigons: sacks. sacks. sacks. sacks. sacks.	(Note: Report results Completion or Recompl etails, and give pertinent dates, s and measured and true vertical	etion Report and Log form.) including estimated date of starting and depths for all markers and zones perform. y 10, 1964. Cement
(Other) 17. DESCRIBE PROPOSED OR COMPLETED OF proposed work. If well is direct nent to this work.)* The well was plugged an plugs were laid as foll No. 1: 8200'-8000', 62 No. 2: 7000'-6 800', 62 No. 4: 2550'-2350', 62 No. 5: 1060'-860', 62 No. 6: 634'-434', 117	d abandoned and the rigons: sacks. sacks. sacks. sacks. sacks.	(Note: Report results Completion or Recompletion or Recompletials, and give pertinent dates, s and measured and true vertical released on Januar	etion Report and Log form.) including estimated date of starting and depths for all markers and zones perform. y 10, 1964. Cement
(Other) 17. DESCRIBE PROPOSED OR COMPLETED OF proposed work. If well is direct nent to this work.)* The well was plugged an plugs were laid as foll No. 1: 8200'-8000', 62 No. 2: 7000'-6 800', 62 No. 3: 4450'-4250', 62 No. 4: 2550'-2350', 62 No. 5: 1060'-860', 62 No. 6: 634'-434', 117	d abandoned and the rigows: sacks. sacks. sacks. sacks. sacks. sacks. sacks.	(Note: Report results Completion or Recompletion or Recompletials, and give pertinent dates, s and measured and true vertical released on Januar	etion Report and Log form.) including estimated date of starting an all depths for all markers and zones pert y 10, 1964. Cement ent marker.

TITLE _

APPROVED BY _______CONDITIONS OF APPROVAL, IF ANY:

Form	OGCC-1	
	0000	

(SUBMIT IN DUPLICATE)

	STATE OF UTAH	
OIL & GAS	CONSERVATION	COMMISSION

SALT LAKE CITY, UTAH

Fee and Patented	
State Lease No. ML 10889	
Public Domain	

Indian

561,211	OTICES AN		
Notice of Intention to Drill	epair	Subsequent Report of Alter Subsequent Report of Red Supplementary Well History	ter Shut-off
(INDICAT	E ABOVE BY CHECK MARK NA	TURE OF REPORT, NOTICE, OR OTHER DATA)
Keel Ranch Utah State We		November 11	
Well No is located			
NE SW NE sec. 16			
(1/4 Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)
Keel Ranch area (Field)	Carbon (County	or Subdivision)	(State or Territory)
	haan filad with		
A drilling and plugging bond has (State names of and expected depths to jobs, cementing points, and all other in the subject well is drilled by the subject well as a subject well as the su	DETAILS of objective sands; show mportant work, surface ling at a depth rice River, IO $\frac{1}{2}$ itial opening; ourse. Recovered	s of work y sizes, weights, and lengths of preformation, and date anticipate s of 5310'. hour, ISI ½ hour, FO 1 in final opening, fair b 75' gas cut mud. IHP 2	oposed casings; indicate mudding pudding-in.) hour, FSI ½ hour, low, gas up in 36 minute 459 psi, ISIP 770 psi,
(State names of and expected depths to jobs, cementing points, and all other in the subject well is drill appear to part of the points of the	DETAILS o objective sands; show mportant work, surface ling at a depth rice River, IO ½ tial opening; o age. Recovered a 20-41 psi, FSI must receive approval in	sizes, weights, and lengths of preformation, and date anticipate sof 5310'. hour, ISI ½ hour, FO 1 in final opening, fair bour to gas cut mud. IHP 2 prefer by 669 psi, FHP 2459 psi writing by the Commission before by Market By. 3. W. Cut	oposed casings; indicate mudding pudding-in.) hour, FSI ½ hour, low, gas up in 36 minute 459 psi, ISIP 770 psi,

producing wells, within an area of sufficient size so forms to applicable rules, regulations and orders.

January 21, 1964

Mountain Fuel Supply Company P. O. Box 1129 Rock Springs, Wyoming

1

Re: Well No. Keel Ranch State #1 Sec. 16, T. 12 S., R. 13 E., Carbon County, Utah

Gentlemen:

Upon receiving the "Induction-Electrical Log" for the above mentioned well, it was noticed that a Sonic Gamma Ray-Caliper Log was also run. As of this date we have not received said log.

Thank you for your cooperation in furnishing this office with this log.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLARELLA N. PECK RECORDS CLERK

cnp

January 28, 1964

Miss Clarella N. Peck, Records Clerk Oil and Gas Conservation Commission 310 Newhouse Building 10 Exchange Place Salt Lake City, Utah 84111

Re: Well No. 1 Keel Ranch State #1
Sec. 16, T. 12 S., R. 13 E.,
Carbon County, Utah

Dear Miss Peck:

I am sending you the sonic gamma-ray caliper \log on our Keel Ranch State #1 which you requested. Our company is keeping this \log confidential and we would like you to keep it confidential and release it to no one.

Very truly yours,

V. B. Gras

Staff Geologist

VBG/ew

Enclosure

Se Francis 1098 a ere plat on the Engineential File

1 Copy & m. V. 2 Copies &W.

STATE OF UTAH OIL & GAS CONSERVATION COMMISSION 310 NEWHOUSE BUILDING SALT LAKE CITY 11, UTAH

REPORT OF WATER ENCOUNTERED DURING DRILLING

		
ell Name & Number	linnie March State	Mo. D Keel Ranch S
perator Mountain F	wol Lupply B. Address Box	7 8 9 Pho ne <u>328-8</u> 31
ontractor Brinkerh	Af Orly, Br. Address Dom	Phone
	16 T. 12 R. 13 E Carl	
later Sands:		
Depth	Volume	Quality
From I	o Flow Rate or Head	Fresh or Salty
·HOH' 4	76' 13 bbls per hr	sulfur water
4		
.		
	NIZA ZONG JAK	The was 1. Time.
	(Continued on reverse side if neces	ssary)
ormation lops:	Sarface Satch 5/5'	
Was	32tch 5/5'	eth Sayre Sayre
Ď.	2 River 4365'	
• •		the second of the
Casil	legate 5330'	
	khawk 5635'	
	icos 6920'	
11/4/1	0100	

JAN 1 7 1964

MOTE: (a) Upon diminishing supply of forms, please inform the Commission

(b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure. (See back of form)

Field Wildcat State UTAH County CARBON Sec. 1	6_T1	2S R. 13E
Company MOUNTAIN FUEL SUPPLY Farm Keel Ranch Hnit. Well	No1_	
Location 1800' FNI. 1468' FEI. Elev. 6755'GR.	6768.	35'KB
Drilling Commenced <u>SEPTEMBER 30, 1963</u> Completed <u>JANUA</u>	RY 8, 10	96h
Rig Released JANUARY 10, 196h Total Depth 91	821	·-··
Casing Record 13-3/8" landed at 53h h9'KBM with 475 sacks	• · · · · · · · · · · · · · · · · · · ·	
Tubing Record		
Perforations		· · · · · · · · · · · · · · · · · · ·
I.P. D&A GasOil		·····
Sands		
Shut-in Surface Pressures		
Remarks Pluggs at 8200' -8000', 7000' -6800', 11150' -1250	2550	-23501,
1060' -860', 634' -434', surface.		
13 bpo water flow between 404' to 476'.		
SHORT FORMATION DESCRIPTION	The	
	From	То
Sample study starts at 520' in the Wasatch Formation. Surface-315' - Wasatch Tongue		
315' - 515' - Green River Tongue 515' - 520' - Wasatch Formation		
Wasatch Formation	500.	1065
	520'	4365'
Variegated Shale interbedded with Sandstone, Siltstone and Limestone. Shale, red, brown, reddish-brown, gray-green, green, yellow, gray,		
purple, calcareous in part, micaceous, silty, soft to hard, blocky.		
Some carbonaceous in lower part. Sandstone, white, red, brown, gray, greenish-gray, yellow, light gray to green some dark grains: very fine		
grain to medium grain, angular to sub-rounded grains, iron stained		
poorly sorted, silty, calcareous in part, arkosic, micaceous, hard, tight to friable. Siltstone, gray, light gray, sandy, calcareous,		
hard, tight. Limestone, green, light gray, dense, hard.		
Price River Formation	43651	53301
Sandstone, Siltstone, Shale. Sandstone, gray, light gray, white, very		
fine grain to medium grain, calcareous in part, unfrosted, sub-rounded to subangular grains, hard, tight. Siltstone, dark grayish-brown, sandy,		
carbonaceous, hard, tight. Shale, gray, grayish-green, some brown car-		
bonaceous, sandy, silty, calcareous, firm to hard.		

5330' 5635'

Castlegate Sandstone

Field Wildcat

Sec. 16 T. 12S R. 13E

Farm Keel Ranch Unit

Well No. 1

Company Mountain Fuel Supply Company

SHORT	FORMA TTON	DESCRIPTION	N

From To

Blackhawk Formation

56351 69201

Sandstone, Shale, Siltstone and coal. Sandstone, white, light gray, very fine grain to fine grain, sub-rounded, frosted, calcareous, hard, tight to friable. Shale, dark gray to brown, silty, carbonaceous, firm to hard. Siltstone, dark gray to brown with some carbonaceous material, hard.

Mancos Shale

6920' 9182'TD

Shale, some Sandstone and coal. Shale, gray to light gray, brownish-gray, yellow, brown, soft, silty, calcareous. Sandstone, white, light gray, very fine to fine grain, hard, tight.





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Weight per foot

13-3/8

Threads per inch

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

Salt Lake City, Utah

(Not to exceed 4 months after filing date)

To be kept Confidential until.

		OF OIL OR O	SAS WELL	
LOCATE WELL CORRECTL	Y			
Operating Company Mt.]	Fuel Supply Co.	Address P. O. Box	1129, Rock Springs, W	<u>Iyo</u> ming
Lease or Tract Keel Ran	ich area	Field —	State Utah	
Well No. 1 Sec. 16	T. <u>12S</u> R. <u>13E</u> Merid	ian 6th P. M. Co	ounty <u>Carbon</u>	
Location 1800 ft. S of N	• Line and 1468 ft. ${7 \choose 1}$	$\left\{\begin{array}{c} X \\ Y \end{array}\right\}$ of E. Line of sec.	Elevation 676	56.60 t
	herewith is a complete	and correct record of the	well and all work done the	reon
Date January 14, 1964		TitleGen	eral Manager, Produci	
The summary on this pa	age is for the condition	of the well at above date.	Pipeline Divisions	
Commenced drilling Septer	nber 30, 19 6	3. Finished drilling Ja	nuary 8, 19_	64
		SANDS OR ZONES ole gas by G)		
No. 1, from None	to	No. 4, from	to	
No. 2, from	to	No. 5, from	to	
No. 3, from	to	No. 6, from	to	
		" WATER SANDS		
No. 1, from 404				
No. 2, from 580	to595	No. 4, from ,	to	
	CASIN	G RECORD		====
Size Weight Threads per	36-3		Perforated	

MUDDING AND CEMENTING RECORD

Spang

1.	Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
•	13-3/8	534.49'KB	M 475	Displacement		84.5 bbls. water
×						
<u> </u>						
2	. [

526.091

Α -	PLUGS AND ADAPTERS										
FOLD	Heaving plu	ug—Material		Length L		Dept	h set				
	Adapters-Material Size										
		SHOOTING RECORD									
	Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out				
				-							
				TOOLS US	ED	·					
	Rotary tool	ls were used from	n fe	et to 9182	feet,	and from	feet to feet				
	Cable tools	were used from	fe	et to	feet,	and from	feet to feet				
				DATES							
	Date P & A	January 10	<u>, </u>	19 <u>64</u> Pu	t to prod	ucing	, 19				
	The production for the first 24 hours was				arrels of	fluid of which -	% was oil;%				
	emulsion;	% water; an	d% sediment	5.		Gravity, °Bé					
	If gas v	well, cu. ft. per :	24 hours	Gall	ons gaso	line per 1,000 cu	. ft. of gas				
	Rock p	ressure, lbs. per	sq. in								
В	rinkerhoff	f Drilling Co	mpany	EMPLOYE							
	A. I	. Hasting	, Drille	er	C	. S. Norby	, Driller				
	S. I	O. Christense	en, Drille	er			, Driller				
	FORMATION RECORD										
	FROM-	то-	TOTAL F	EET		FORMATI	FORMATION				
				A		of complete Driller's hether from Electri	Log add Geologic Tops. c Logs or samples.				
		See attac	hed formation	record.							

At the end of complete Driller's Log add Geologic Tops. See attached formation record. Electric logs enclosed.

(OVER)

Budget Bureau No. 42-R356.5. Approval expires 12-31-60

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LAND OFFICE		
LEASE NUMBER		
UNIT Keel.	Ranch A	rea
(Formerly	Minnie	Maud)

LESSEE'S MONTHLY REPORT OF OPERATIONS

	State	Ut	ah		Cou	nty	arbon	Field	Ke	el Ranch	Area	
												ınd producing
												V COMPANY
	Agent's a	ddress			P.	O. Box 989	·····	Com	pany MOU	NIAIN FU	LEL SUPPL	Y COMPANY
	D							Signe	ed	NVISIONAL	CHIEF A	CCOUNTANT
	Phone		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	740-031)	·············	nger		VISIONAL		CCOUNTANT
	SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL No.	DAYS PRODUCED	Barrels of Oil	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	(If drilling, of cause; date at	MARKS lepth; if shut down and result of test for content of gas)
ie,	SW, 16	12	13	1							Plugge	med 1/10/64

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329 (January 1950) Utah Oil & Gas Conservation Commission.

Would you please be kind enough to senu me a supply of all O&G forms for wells drilled in Utah to the undersigned:

> Steve Majhanovich Mountain Fuel Supply Company P. O. Box 1129 Rock Springs, Wyoming

Sunt 8/40-11-3 - July

DELIVER J:		, \
DEPARTMENT		
	AUG.	
	c .o	
FROM		
DEPT.	3	
MEMO:		

Xi

October 8, 1964

MEMO FOR FILING:

Re: Mountain Fuel Supply Company
Well No. Keep Ranch-Cow Canyon Unit #1
Sec. 16, T. 12 S., R. 13 E.,
Carbon County, Utah

I visited this well on October 1, 1964. Abandoned well site (1-9-64) has been cleaned, and identified in a satisfactory manner. No hazards could be observed in the immediate area. However, approval cannot be given at the present time. A reserve pit, which is filled with oil, remains exposed on the location. Although it is properly fenced, the operator will have to fill and level after the fluids have evaporated.

It should be noted that a more detailed check was made regarding the unorthodox location, (20° too far north and 420° too far east) and it was found legiment due to the nature of the terrian.

PAUL W. BURCHELL CHIEF PETROLEUM ENGINEER

PWB:ns

cc: H. L. Coonts, Pet. Eng.
Box 266
Moab, Utah

Rodney Smith, District Engineer U. S. Geological Survey 8416 Federal Bldg., Salt Lake City, Utah

Gail Prince
State Land Board
Room 105, State Capitol Bldg., Salt Lake City, Utah

Mountain Fuel Supply Box 989
Salt Lake City, Utah

September 10, 1965

MEMO FOR FILING

Re: Mountain Fuel Supply Company Well No. Cow Canyon Unit #1 Keel Ranch State #1 Sec. 16, T. 12 S., R. 13 E., Carbon County, Utah

I visited the above location on September 9, 1965. This abandoned location now meets with approval. Well site has been properly identified, pits filled, cleaned and restored almost to its original contour.

Operator can now be relinquished from its bond liability.

PAUL W. BURCHELL CHIEF PETROLEUM ENGINEER

PWB:cnp

cc: State Land Board
105 State Capitol Building
Salt Lake City, Utah

Rodney Smith, District Engineer U. S. Geological Survey 8416 Federal Building Salt Lake City, Utah

September 22, 1970

MEMO FOR FILING

Re: September 18, 1970

Mountain Fuel Supply Company

Cow Canyon #1

Sec. 16, T. 12 S., R. 13 E.

Carbon County, Utah

Plugged and abandoned location has been satisfactorily cleaned, leveled, and properly identified. It is recommended that liability under the bond be terminated.

PAUL W. BURCHELL CHIEF PETROLEUM ENGINEER

PWB:cr

cc: U. S. Geological Survey

August 1, 1974

MEMO FOR FILING

Re: MT. FUEL SUPPLY COMPANY
Keel Ranch-State #1
Sec. 16, T. 12 S, R. 13 E,
Carbon County, Utah

On July 25, 1974, a visit was made to the above referred to well site.

Old plugged and abandoned well still retains its approved status. No hazards or leaks were observed.

PAUL W. BURCHELL CHIEF PETROLEUM ENGINEER

PWB:1p

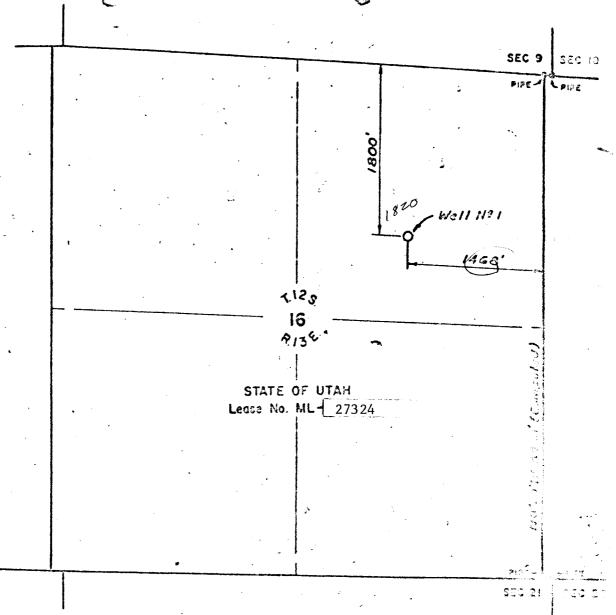
cc: State Land Board

U. S. Geological Survey

SUBMIT IN TLATLICATE* (Other instructions on reverse side)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING

		, GAS, AND MINING		5. Lease Designation and Serial No.
APPLICATIO	N FOR PERMIT	TO DRILL, DEEP	EN, OR PLUG B	ACK 6. If Indian, Allottee or Tribe Name
b. Type of Well	RILL U re-market	DEEPEN X	PLUG BAC	Keel Ranch
. Name of Operator	NG COMPANY, INC		Zone Zone	Keel Ranch Unit
. Address of Operator				#1-16
Location of Well (Re At surface 1468 At proposed prod. zon	FEL, 1800' FNL	accordance with any State	eet, Denver, CO & requirements.*)	10. Field and Pool, or Wildcat Wildcat 11. Sec., T., R., M., or Blk. and Survey or Area
Same I. Distance in miles an	d direction from nearest to	wn or post office*		Section 16, T12S-R13E 12. County or Parrish 13. State
5. Distance from propo location to nearest property or lease lin (Also to nearest drlg.	e, ft. 146		o. of acres in lease	Carbon Utah 17. No. of acres assigned to this well 640
8. Distance from propor to nearest well, drilli or applied for, on thi	sed location* ing, completed,		roposed depth	20. Rotary or cable tools
. Elevations (Show whe	ether DF, RT, GR, etc.)	ie	12,500'	Rotary 22. Approx. date work will start*
6755' GR				February 20, 1981
		PROPOSED CASING AND	CEMENTING PROGRAM	
Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
* 17½	13 3/8	Unknown	534 '	475 sx
$\frac{12\frac{1}{4}}{8 \ 3/4}$	9 5/8 5 1/2	36 17	1,700'	to surface
*existing cas	•	17	12,500'	300 sx
The objective	e zone of this w	ell is the Ferr	on.	
set at 1700 f logs will be	eet. An 8 3/4"	hole will be diranted, 5½" proc APPROVED	A new string of rilled to a new fluction casing with BY THE DIVISION, AND MINING	plugged and abandoned at a f surface casing will be I.D. of 12,500'. Electric ill be set. Location plat
		BY: 4.	Muster	
ABOVE SPACE DESC tive zone. If proposal venter program, if any.	CRIBE PROPOSED PROGR is to drill or deepen direct	AM: If proposal is to deel ionally, give pertinent data	pen or plug back, give data on subsurface locations and	on present productive zone and proposed new pro- l measured and true vertical depths. Give blowout
Signed Hugh/E (This space for Federal	Lawey, Jr.	TitleDiv	rision Engineer	Date February 13, 19
Permit No		A	pproval Date	
Approved by	if any:			



ENGINEER'S AFFIDAVIT

State of Wyoming Sweetwater }s.s

1, R.C. Day, of Rock Springs Wyoming, hereby certify that this map was made from notes taken during an actual survey made under my direction by A.L. Nelson on August 12 to 15, 1963; and that it correctly represents the location thereon with section measurements based on the official survey plat of Section 16, T. 12 S., R. 13 E and the resurvey plat of adjoining Sections 9 & 21, T. 12 S., R. 13 E.

Engineer

Utsh Pagistration Nº 1295



SUITE 2122 • 718 17th ST. • WESTERN FEDERAL SAVINGS BLDG. DENVER, COLO. 80202

WELL CONTROL AND RELATED INFORMATION

Trigg Drilling Company, Inc. KEEL RANCH UNIT #1-16 Section 16, T12S-R13E Carbon County, Utah

Proposed Reentry

- 1. Surface formation Green River
- 2. Estimated formation tops:

Wasatch	515
Price River	4,315
Castlegate	5,330
Mancos	6,920
Ferron	11,500
Dakota	12,000
T.D.	12,500

3. Estimated depths at which anticipated water, oil or gas or other mineral bearing formations are expected:

Water: 0-1,700' Gas or Oil: 1,700-12,500'

4. Casing program and current well bore conditions:

Casing in place consists of: 13 3/8", 48# set @534' with cement to surface Present T.D. is 9182'.

Cement plugs are set at:

No. 1 8200-8000 62 sacks

No. 2 7000-6800 62 sacks

No. 3 4450-4250 62 sacks

No. 4 2550-2350 62 sacks

No. 5 1060- 860 62 sacks

No. 6 634-434 117 sacks

No. 7 10 sacks at top of surface casing.

Proposed casing program:

*New surface casing 0-1,700' 9 5/8", 36# with cement to surface Production casing 0-12,500' $5\frac{1}{2}$ ", 17# with cement to cover pay zones

*New surface casing to be set deep enough to cover water flows encountered at 404'-476', 580-595' and 1180'-1310'. This casing string will be set by a small rotary rig before the primary rig is moved onto the hole.

Well Control and Related Information Keel Ranch Unit #1-16 Page 2

- 5. Pressure control equipment:
 - a. During setting of new surface casing a rotating head will be attached to the old surface casing to divert any flows of gas or water.
 - b. During re-entry and drilling, BOP stack will consist of 12" 5000# double ram stack topped with 12" 3000# hydrill. Appropriate choke manifold and kill lines will be attached. Rotary rig will have pit level monitor and flow sensing device. See enclosed drawing. Drill pipe stabbing valve will be kept on the floor at all times.
- 6. Drilling fluids:

0'-12,500': Weighted, fresh water mud. Weight to be 10.0 ≤ 11.4 ppg to control hole conditions.

7. Auxiliary equipment to be used:

None.

8. Coring, testing, and logging program:

No cores or DST's are anticipated. Electric logs will be gamma ray, SP, dual induction and density-neutron porosity.

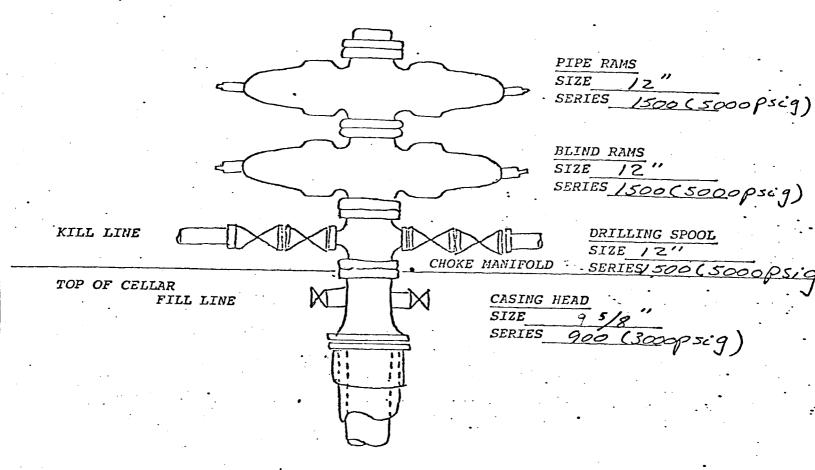
9. Abnormal conditions or potential hazards:

No abnormal conditions or potential hazards are anticipated. No H2S gas is known to exist in the formations to be drilled.

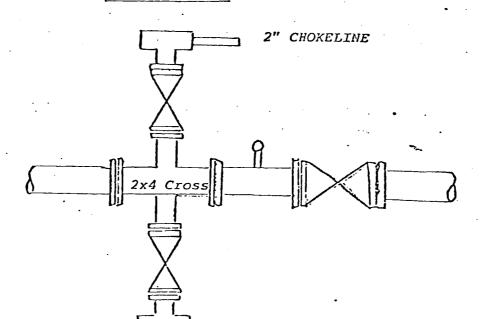
10. Anticipated starting date:

February 18, 1981.

DOP HIN. 381



CHOKE MANIFOLD



DESIGNATION OF OPERATOR

The undersigned is, on the records of the Department of Natural Resources, Division of State Lands, holder of lease,

ML - 27324

and hereby designates

Trigg Drilling Co., Inc.

Address: Suite 2122 - 718 17th Street Denver, Colorado 30202

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Director of the Division of State Lands or his representative may serve written or oral instructions in securing compliance with the Rules and Regulations governing the issuance of mineral leases with respect to (describe acreage to which this designation is applicable):

Township 12 South, Range 13 East Section 16: All

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and Rules and Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Director of the Division of State Lands or his representative.

The lessee agrees promptly to notify the Director of the Division of State Lands of any change in the designated operator. UNION OIL COMPANY OF CALIFORNIA

Signature of lessee) Attorney-in-fact

P. O. Box 3100, Midland, Texas <u>February 11,</u> (Add::ess) (Date)



SUITE 2122 • 718 17th ST. • WESTERN FEDERAL SAVINGS BLDG. DENVER, COLO. 80202

February 13, 1981

State of Utah Division of Oil, Gas & Mining 1588 West, North Temple Salt Lake City, Utah 84116

> RE: Keel Ranch Unit #1-16 Section 16, T12S-R13E Carbon County, Utah

Gentlemen:

Enclosed for your approval is our application for permit to re-enter and deepen the above captioned well. Also enclosed are copies of the designation of operator and bond in the amount of \$10,000.

This will be the obligatory well for a Federal Unit designated as the Keel Ranch Unit. Appropriate copies of the above material have been sent to the U.S.G.S. in Salt Lake City,

We are facing a lease expiration deadline. Your prompt attention to this matter would be appreciated.

Sincerely yours,

HUGH E. HARVEY, JR. Division Engineer

Hugh E. Karrey).

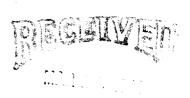
HEH/jw

cc: U.S.G.S. - Salt Lake City

SURM & TRIPLICATE*

STATE OF LITAH (Other inst	tructions on e side)
DIVISION OF OIL, GAS, AND MINING	5. LEASE DESIGNATION AND SERIAL NO. ML 27324
SUNDRY NOTICES AND REPORTS ON WELLS e this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	6. IF INDIAN, ALLOTTEB OR TRIBE NAME
ELL X OTHER	7. UNIT AGREEMENT NAME Keel Ranch
LLING COMPANY, INC.	8. FARM OR LEASE NAME Keel Ranch Unit
ern Fed.Svgs.Bldg., 718-17th St., Denver, CO 80202	9. WELL NO. #1-16
LL (Report location clearly and in accordance with any State requirements.* 7 below.)	10. FIELD AND FOOL, OR WILDCAT Wildcat
	11. SEC. T. R. M. OR BLE. AND

	(Do not use this form for pro Use "APPL	prosals to drill or to deepen or plucation for permit—" for suc	or Wells ug back to a different reservoir. proposals.)		
ī.				7. UNIT AGREEMENT NA	MB
	WELL WELL Y OTHER			Keel Ranch	
2.	NAME OF OPERATOR TRIGG DRILLING COMPA	8. FARM OR LEASE NAM Keel Ranch I	_		
8.	ADDRESS OF OPERATOR		9. WELL NO.		
	2122 Western Fed.Svg		#1-16		
4.	LOCATION OF WELL (Report locatio See also space 17 below.) At surface	a clearly and in accordance with a	any State requirements.*	Wildcat	WILDCAT
	1468' FEL, 1800' FNL			11. SEC., T., R., M., OR B SURVEY OR AREA	LK. AND
				Section 16,	
14.	PERMIT NO.	15. BLEVATIONS (Show whether		12. COUNTY OR PARISH	1
_		6755' GR	·	Carbon	Utah
	NOTICE OF INT	PHION TO:	Nature of Notice, Report, or C	ENT REPORT OF:	()
	TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING W	/ELL
	FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CA	BING
	SHOOT OR ACIDIZE	ABANDON*	SHOUTING OR ACIDIZING	ABANDONMEN	XX
	REPAIR WELL	CHANGE PLANS	(01)	operations of multiple completion	
	(Other)		Completion or Recompl	etion Report and Log for	m.)
17.	DESCRIBE PROPOSED OR COMPLETED O proposed work. If well is direct nent to this work.) *	PERATIONS (Clearly state all pertire tionally drilled, give subsurface to	nent details, and give pertinent dates, ocations and measured and true vertica	including estimated date i depths for all markers	e of starting an and zones perti
	Reentry operations we	ere started February	27, 1981.		
	was run and cemented	at 1690'. Cement wa 981. A larger rig wa	8'. New 9 5/8" 36# sur as circulated. Rotary ill be moved in when av	tools were	



DIVISION OF OIL, GAS & MINING

APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE	DATE
(This space for Federal or State office use)		
signed thigh & Hawey.	TITLE Division Engineer	DATE 3/16/81
18. I hereby certify that the foregoing fe true and correct	'70	

April 6, 1981

Trigg Drilling Company, Inc. 2122 Western Federal Eavings Bldg. 718-17th Street Denver, Colorado 80202

Ke; Well No. Keel Ranch Unit #1-16 Sec. 16, T. 12S, R. 13E, SW NE Carbon County. Utah

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer Office: 533-5771

Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-007-30062.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

and the transfer of the second trap

Michael T. Minder Petroleum Engineer

MTM/ko

cc: State Land Bozzd, Donald Prince



SUITE 2122 • 718 17th ST. • WESTERN FEDERAL SAVINGS BLDG. DENVER, COLO. 80202

May 5, 1981

TELEPHONE 303/623-0070

JACK E. TRIGG JOE DAN TRIGG

> State of Utah Division of Oil, Gas & Mining 1588 West, North Temple Salt Lake City, Utah 84116

> > Re: Keel Ranch Unit #1-16

Section 16-T12S-R13E Carbon County, Utah

Gentlemen:

Enclosed is a sundry notice for the above-captioned well, depicting the resuming of operations on May 2, 1981.

Please do not hesitate to contact me if you should have any questions.

Sincerely,

TRIGG DRILLING COMPANY, INC.

Hugh E. Harvey, Jr.

Division Engineer

HEH/ck

enclosure

MAY 7 GC

DIVISED OF OIL OAS & MINING

SUD: AT IN TRIPLICATES (Other instructions on reverse side)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING					5. LEASE DESIGNATION AND SERIAL NO.		
SUNDRY N	6. 19	6. IF INDIAN, ALLOTTES OR TRIBE NAME					
1.				7. 01	NIT AGREEMENT NA	MB	
WELL GAS X OTE	IER			Ke	eel Ranch		
2. NAME OF OPERATOR				8. 74	IRM OR LEASE NAS	(3	
Trigg Drilling Compa	ny, Inc.			Κe	eel Ranch U	Init	
8. ADDRESS OF OPERATOR				9. W	BLL NO.		
2122 Western Federal	Savings Bldg., Der	nver, Co	olorado 80202	1-	-16		
4. LOCATION OF WELL (Report local See also space 17 below.) At surface	tion clearly and in accordance w	vith any Sta	te requirements.	4	ildcat	R WILDCAT	
1468' FEL, 1800' FNI				11. 6	BC., T., R., M., OR B BURYBY OR ARBA	ILE. AND	
				16	5-12S-13E		
14. PERMIT NO.	15. BLEVATIONS (Show wi		GR, etc.)	12, c	OUNTY OR PARISH	18. STATE	
	6755' (GR		Ca	ırbon	Utah	
16. Check	Appropriate Box To Indi	cate Natu	re of Notice Report	or Other [Data		
	NTENTION TO:						
		_	AUB	SEQUENT RE	PORT OF:		
TEST WATER SHUT-OFF	PULL OR ALTER CASING	_	WATER SHUT-OFF		REPAIRING V	VELL	
FRACTURE TREAT	MULTIPLE COMPLETE	-	FRACTURE TREATMENT		ALTERING CA	ASING	
SHOOT OR ACIDIZE	ABANDON*	-	SHOUTING OR ACIDIZING		ABANDONMEN		
REPAIR WELL (Other)	CHANGE PLANS	-			perations	X X	
17. DESCRIBE PROPOSED OR COMPLETE, proposed work. If well is di			(NOTE: Report res	ompletion R	eport and Log for	m.)	
Company, Rig #9, is 1100 psi, and the su	rface pipe plug was	s drille	d.				
				*1."			
)	1917 m		
						(P)	
8. I hereby certify that the foregolic SIGNED Signed Sauce	ng to true and correct	Divis	ion Engineer	1	DATE May 5	, 1981	
(This space for Federal or State	office use)						
APPROVED BY	TITLE	ß		1	DATE		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

SUB! N TRIPLICATE*
(Ou... instructions on reverse side)

	TMENT OF NATURAL RES SION OF OIL, GAS, AND I		5. LEASE DESIGNATION AND SERIAL NO.
	OTICES AND REPORTS costals to drill or to deepen or plu CATION FOR PERMIT—" for such		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
ī.			7. UNIT AGREEMENT NAME
OIL GAS X OTHER			Keel Ranch
2. NAME OF OPERATOR	T		8. FARM OR LEASE NAME
Trigg Drilling Compan	ly, inc.		Keel Ranch Unit
2122 Western Federal	Savings Rldg., Denve	er. Colorado 80202	
4. LOCATION OF WELL (Report location			1-16 10. FIELD AND POOL, OR WILDCAT
See also space 17 below.) At surface		•	Wildcat
1468' FEL, 180	O FNI.		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
1400 FEL, 100	O TND		
			Section 16-T12S-R13E
14. PERMIT NO.	15. BLEVATIONS (Show whether	DF, RT, GR, etc.)	12. COUNTY OR PARISH 18. STATE
	6755 GR		Carbon Utah
16. Check A	ppropriate Box To Indicate	Nature of Notice, Report, a	r Other Data
NOTICE OF INTE	INTION TO:	. SUBI	SEQUENT REPORT OF:
TEST WATER SHUT-OFF	FULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	ABANDON®	SHOUTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL	CHANGE PLANS	(01)	Report - June, 1981
(Other)		(Note: Report res Completion or Reco	ults of multiple completion on Well mpletion Report and Log form.)
May 31, 1981 - Drilli June 30, 1981 - Drill			DIVISION OF OIL, GAS & MINING
18. I hereby certify that the foregoing SIGNED Awar Cawe (This space for Federal or State of APPROVED BY	to Title _	Division Engineer	DATE
CONDITIONS OF APPROVAL, IF		**************************************	UALN



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING 1588 West North Temple Salt Lake City, Utah 84116

1 7 1981

REPORT OF WATER ENCOUNTERED DURING DRILLING

DWSION OF OIL CAS & MINING	
-------------------------------	--

Well Name & Number Keel Ranch Unit #1-16	
Operator Trigg Drilling Company, Inc. Address Denver, Colo	Federal Svgs. Bldg rado 80202
Contractor Veco Drilling Co. Address Grand Junction	
Location SW 4 NE 4 Sec. 16 T. 12S R. 13E	County Carbon
Water Sands	
<u>Depth</u> <u>Volume</u>	Quality
From To Flow Rate or Head	Fresh or Salty
1NONE	
2	
3	
4	
5	
(Continue of reverse side if necessary)	
Formation Tops	
Damank.	

Remarks

Hole was re-entered and deepened from 9180' to 12,646'.

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
 - (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

SUB! N TRIPLICATE*
(Ou..., instructions on reverse side)

	RIMENT OF NATURAL RES ISION OF OIL, GAS, AND N		5. LEASE DESIGNATION AND BERIAL NO.
	OTICES AND REPORTS possals to drill or to deepen or plu ACATION FOR PERMIT—" for such		6. IF INDIAN, ALLOTTES OR TRIBE NAME
f			7. UNIT AGREEMENT NAME
OIL GAS X OTHER			Keel Ranch
2. NAME OF OPERATOR			8. FARM OR LEASE NAME
Trigg Drilling Compa	ny, Inc.		Keel Ranch Unit
8. ADDRESS OF OPERATOR		0 1 1 00000	9. WELL NO.
	Savings Bldg., Denve		1-16
See also space 17 below.)	n clearly and in accordance with a	ny State requirements.*	10. FIELD AND POOL, OR WILDCAT
At surface			Wildcat 11. SBC., T., R., M., OR BLK. AND
1468' FEL, 18	00' FNL		SURVEY OR AREA
			Section 16-T12S-R13E
14. PERMIT NO.	15. ELEVATIONS (Show whether	DF. RT. GR. etc.)	12. COUNTY OR PARISH 18, STATE
	6755 GR	21, 111, 211, 1001,	Carbon Utah
16. Check	Appropriate Box To Indicate	Nature of Notice, Report, o	r Other Data
NOTICE OF IN	TENTION TO:	SUBS	EQUENT REPORT OF:
TEST WATER SHUT-OFF	FULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	ABANDON*	SHOUTING OR ACIDIZING	ABANDON MENT*
REPAIR WELL	CHANGE PLANS	(Other) Monthly	Report - June, 1981
(Other)			ilts of multiple completion on Well mpletion Report and Log form.)
May 31, 1981 - Drill June 30, 1981 - Dril			DIVISION OF OIL, GAS & MINING
18. I hereby certify that the foregoing SIGNED Augu Court (This space for Federal or State APPROVED BY	TITLE _	Division Engineer	DATE July 7, 1981
CONDITIONS OF APPROVAL, II			DATE

SUBA AN TRIPLICATES (Other instructions on reverse side)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OUR GAS AND MINING

DI	VISION OF OIL, GAS, A	AND MINING	5. LEASE D	ESIGNATION AND SERIAL NO.
	IOTICES AND REPO	ORTS ON WELLS or plug back to a different reserve for such proposals.)		N, ALLOTTES OR TRIBE NAME
i.				REEMENT NAME
WELL GAS OTH	ER		Keel Ra	nch Unit
2. NAME OF OPERATOR Trigg Drilling Comp	any Inc		8. FARM OR	LEASE NAME
8. ADDRESS OF OPERATOR	any, inc.		Keel Ra	nch Unit
2122 Western Fed. S	ves. Bldg., Denver	c. Colorado 80202).
4. LOCATION OF WELL (Report locat	•		1-16 10. FIELD A	ND POOL, OR WILDCAT
See also space 17 below.) At surface		•	Wildcat	
1468' FEL, 1800' FN	L		11. smc., T.	, R., M., OR BLK. AND BY OR AREA
14. PERMIT NO.				16-T12S-R13E
14. PERMIT NO.	15. BLEVATIONS (Show v	whether DF, RT, GR, etc.)	Carbon	Utah
		dicate Nature of Notice, Rep		
NOTICE OF I	NTENTION TO:	_	SUBSEQUENT REPORT	O F :
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	F	REPAIRING WELL
FRACTURE TREAT SHOOT OR ACIDIZE	MULTIPLE COMPLETE ABANDON®	FRACTURE TREATM SHOUTING OR ACID		ALTERING CASING
REPAIR WELL	CHANGE PLANS		rogress Report	THE
(Other)		(NOTE: Repo	ort results of multiple or Recompletion Report	completion on Well
Progress Report: 8/1/81 Completing PU pkr. TIH to 12, 8/31/81 SI. WO eva.		tree. Test pkr to 20		
SIGNED - Control (This space for Federal or State	roffice use)	LE Division Engineer	DATE	
APPROVED BY	IF ANY:	LE	DATE	

November 6, 1981

Trigg Drilling Company 2122 Western Fed. Svgs. Denver, Colorado 80202

> Re; WELL NO. Keel Ranch Unit #1-16 Sec. 27, T. 41S R. 26E. San Juan County, Utah

Gentlemen:

This letter is to advise you that the Recompletion Report and Log for the above mentioned well, is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicated and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

SANDY BATES
WEERKCLERK

WILL DATA SHEET

WELL DATA	
OPERATOR' L. C.	WELL Kind lond 1/1-16
OPERATOR' COUN	ITY Colon STATE Utok
LOCATION 2: 14 125-13=	
ELEV. 6744 KB 6755 G.L. SPUD DATE	2/28/81 COMP. DATE $10/23/81$
T.D. 12,646 P.B.T.D. 9230 FORM. M	ancos
DRAWING NOT TO SCALE	
	COMPLETION & WORKOVERS
Perf 8084-8134 = CTAP Q 23/2' 4 582 Loles = = = = = = = = = = = = = = = = = = =	25/8" csa @ 1690' Cut w/300 sxs Halco lite 200 sys Class G" 200 sys dented acid, 80 RCA balls 40 bls 27. Kcl 2% they A 8230' 2% they A 8230' 2% they A 8230' 2% they A 8230'
CIBP Q 11,300'	2000 gal 7 1/27. HC1, 100 ball scalers
11,374-420 255FF ==================================	± ·
11600 Hilds ±	= = (w/300 sis Class G.

UBMIT IN DUPLICATE*

		STATE	OF UTAH	SUB	MIT IN D	• See other)		
	OIL & GA	S CONSERV	ATION CO	MMISSIO	N	structions of reverse side		ESIGNATION AND SER
WELL CO	MPLETION	OR RECON	APLETION	REPORT	AND	LOG*	6. IF INDIA	N, ALLOTTEE OR TRIB
ia. TYPE OF WE	LL: OH, WELI	GAS WELL	DRY	Other			7. UNIT AGE	REEMENT NAME
b. TYPE OF COM			_				Keel R	anch
WELL		X PLEG BACK	DIFF. ESVR.	Other			S. FARM OR	LEASE NAME
2. NAME OF OPERA		-					Keel R	anch Unit
3. ADDRESS OF OPI	rilling Comp	pany, Inc		·			9. WELL NO.	
	stern Fed.S	ros Bldo	Denver Co	Jorado	80202		1-16	
4. LOCATION OF WE	LL (Report location	clearly and in a	cordance with a	ny State requ	irementa)	1	- Wildca	ND POOL, OR WILDCAT
	1468' FEL, 1			•	,		i	R., M., OR BLOCK AND
At top prod. in	terval reported belo	♥ as abo	N. C.				OR AREA	
		as abc	ove.				Sectio	n 16-12S-13E
At total depth	as above							
			14. PERMIT NO	·. I	DATE ISS	U ED	12. COUNTY PARISH	OR 13. STATE
15. DATE SPUDDED	16. DATE T.D. REA	ACHED 17. DATE	COMPL. (Ready)	to prod.)	0		Carbon	Uta
2/28/81	7/6/81	i .	0/23/81	1			, RT, GR, ETC.) *	
20. TOTAL DEPTH, MD	4 TVD 21. PLUG,	BACK T.D., MD & T	VD 22. IF MUI	TIPLE COMPL	6755	GR 0// 3. INTERVALS	4 KB ROTARY TOO	6755
12,646	82	242	HOW Y			DRILLED BY	al1	
24. PRODUCING INTE	RVAL(S), OF THIS C	OMPLETION-TOP,	BOTTOM, NAME (MD AND TYD)	•		, all	25. WAS DIRECTI
8084-8134'	Mancos							
26. TIPE ELECTRIC	··· -	<u> </u>	· · · · · · · · · · · · · · · · · · ·					No
	And the same			$\sim 10^{-2}$				27. WAS WELL CORE
28.	GR-SP, CBL,	CNL-Densit	y, Acousti G RECORD (Rep	.log,/we	lex fr	<u>ac tinde</u>	r	<u>No</u>
CASING SIZE	WEIGHT, LB./FT			LE SIZE	s set th we	CEMENTING	RECORD	AMOUNT PUL
9-5/8"	36#	1690	12	14"	300	sxs Halc	o lite &	
				· · · · · · · · · · · · · · · · · · ·	200	0 sxs Cl	ass "G"	
_5½"	<u> 17#</u>	12,64	6 ' 7	-7/8''	370 s	sxs 50-5	0 poz	
29.	7.7	NED BEGORD			<u> </u>			
SIZE		NER RECORD	LIGHT CHARLES	· · · · · · · · · · · · · · · · · · ·	30.		TUBING RECO	RD
		(3/0)	ACKS CEMENT®	SCREEN (M		SIZE	DEPTH SET (MI	PACKER SET (
						-7/8 ''	8230 '	
31. PERFORATION REC	ORD (Interval, size	and number)		32.	ACID,	SHOT, FRAC	TURE, CEMENT	SQUEEZE, ETC.
				DEPTH INT				OF MATERIAL USED
See attache	ed.				See		tached	
								
								
33.•			PROF	UCTION				
DATE FIRST PRODUCT	ON PRODUCT	ION METHOD (Flo			and type o	f pump)	WELL S	STATUS (Producing or
SI DATE OF TEST		Lowing					shut-	
10/23/81	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	oil—ssl.	GA:	s—мсғ. 129.5	WATER-BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL.	GA83	MCF.	WATER-	<u> </u>	OIL GRAVITY-API (COR
570	0		tr	4.	44	0	1	
34. DISPOSITION OF GA	is (Sold, used for fu	el, vented, etc.)		· · · · · · · · · · · · · · · · · · ·			TEST WITNESS	ED BY
35. LIST OF ATTACHN	(ENTS						C. Bal	des
Wellbore sk		f. record						
36. I hereby certify	that the foregoing	and at pached info	rmation is compl	ete and corro	et ga doe-	emined for-	A11 2 2 4 1 1 1	
	1 40/1 > 11/2.	ver -		•				
700	1 101	75	TITLE	Division	ı Mana	ger	DATE	11/13/81

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), for analysis, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attached hereto, to the extent required by applicable Federal and/or State laws and regulations.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local later or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Hem 29: "Sacks Cement". Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

	a sacrem, contitue	1000 0	EN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	BMAN	T	TOP	
					MEAS. DEPTH T		
Ferron and			1 1	Ferron	11,260		
Dakota			vals tested tight except for 12,166-12,196' 2.6 MMCFD but depleted in three days.	Dakota	12,000		
			•				

Attachment Keel Ranch Unit #1-16 Section 16-12S-13E Carbon County, Utah

Trigg Drilling Company, Inc.

Perforation Record

12,590-603', 2 JSPF

12,420-432', 2 JSPF

12,280-286', 2 JSPF

12,294-304', 2 JSPF

12,188-196' and 12,177-183' and 12,166-171', 2 JSPF

11,600', 4 shots

11,374-420', 2 JSPF

4 sqz holes @ 8270'

8084-81341

Acid, Shot, Fracture, Cement Squeeze, Etc.

12,590-603', 1000 gal $7\frac{1}{2}\%$ HCl, 77 bbl 2% KCl

12,420-432', 1000 gal $7\frac{1}{2}\%$ HC1

12,280-286' and 12,294-304', 1000 gal 7½% HCl

12,188-196' and 12,177-183' and 12,166-171', 1500 gal $7\frac{1}{2}\%$ HCl and 80 RCN balls followed by 10 bbls Methanol and 79 bbls 2% KCl

11,600', sqz w/300 sxs Class "G"

11,374-420', 2000 gal $7\frac{1}{2}\%$ HCl and 100 ball sealers

4 sqz holes @ 8270', 300 sxs Class "G" disp w/2% KCl

8084-8134, 2500 gal $7\frac{1}{2}\%$ spearhead and 80 RCN balls followed by 40 bbls 2% KC1

Fracture

55,000 gal apollo gel w/24,500 # 20-40 sd and 14,000 # 20-40 bauxite



SUITE 2122 • 718 17th ST. • WESTERN FEDERAL SAVINGS BLDG. DENVER, COLO. 80202

November 13, 1981

TELEPHONE 303/623-0070

JACK E. TRIGG JOE DAN TRIGG

> State of Utah Division of Oil, Gas, & Mining 1588 West North Temple Salt Lake City, Utah 84116

Attn: Sandy Bates

Re: Keel Ranch Unit #1-16 Section 16-12S-13E Carbon County, Utah TITE HOLE

Dear Ms. Bates:

With reference to your letter of November 6, 1981, we enclose a well completion report, along with a wellbore sketch and perforation record for the above-captioned well.

Please do not hesitate to contact this office if you should have any questions regarding this matter.

Sincerely,

TRIGG DRILLING COMPANY, INC.

Hugh E. Harvey, Jr. Division Manager

HEH/ck

enclosures

cc: U.S. Geological Survey

SUBA (N TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

DIVISI	ON OF OIL, GAS, AND M	INING	5. LEASE DESIGNATION AND BERIAL NO.
SUNDRY NOT (Do not use this form for propo Use "APPLIC.	ICES AND REPORTS sale to drill or to deepen or plug ATION FOR PERMIT—" for such	ON WELLS back to a different reservoir. proposals.)	6. IF INDIAN, ALLOTTES OR TRISE NAME
f.			7. UNIT AGREEMENT NAME
OIL CAS OTHER			Keel Ranch Unit
2. NAME OF OPERATOR			S. FARM OR LEASE NAME
Trigg Drilling Company	, Inc.		Keel Ranch Unit
8. ADDRESS OF OPERATOR		- 1 1 00000	9. WELL NO.
2122 Western Federal S LOCATION OF WELL (Report location of	lvgs. Bldg., Denver,	Colorado 80202	1-16 10. FIELD AND FOOL, OR WILDCAT
 LOCATION OF WELL (Report location of See also space 17 below.) At surface 	clearly and in accordance with any	State requirements.	Wildcat
wr surrece			11. BBC., T., R., M., OR BLE. AND
			SURVEY OR AREA
1468' FEL, 1800' FNL			Section 16-12S-13E
14. PERMIT NO.	15. BLEVATIONS (Show whether D	F, RT, GR, etc.)	12. COUNTY OR PARISH 18. STATE
	6755' GR		Carbon Utah
6. Check Ap	opropriate Box To Indicate I	Nature of Notice, Report, or (Other Data
NOTICE OF INTEN	TION TO:	aumazu.	QUENT REPORT OF:
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	ABANDON*	SHOUTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL	CHANGE PLANS		s of multiple completion on Well
(Other)		('ompletion or Recomi	pletion Report and Log form.)
proposed work. If well is directic nent to this work.) *	onally drilled, give subsurface loc	ations and measured and true vertice	s, including estimated date of starting an cal depths for all markers and zones pert
Progress Report:	. 1.		
1/1/82 Waiting or	n pipeline.		
1/31/82 Waiting or	n pipeline.	RE	CEIVED MAR 0 5 1982
			MAK 0.3 130E
		OIL	DIVISION OF , GAS & MINING
18. I hereby certify that the foregoing A	* true-and correct		
signed Dail 200	_ / I	Division Engineer	DATE2/26/82
(This space for Federal or State off	ice use)		
APPROVED BY	TITLE		DATE



4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

June 15, 1982

Trigg Drilling Company, Inc. 2122 Western Federal Svgs. Bldg. Denver, Colorado 80202

> Re: Well No. Keel Ranch Unit #1-16 Sec. 16, T. 12S, R. 13E. Carbon County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office November 13, 1981, from above referred to well, indicates the following electric logs were run: Induction-GR-SP, CBL, CNL-Density, Acoustilog, Welex frac finder. As of todays date, this office has not received these logs.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

We have a request for the above logs. It would be greatly appreciated if you would promptly send them in.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cari Furse Clerk Typist

bit #3 LING COMPANY b. TGF-106

		Total	Well	Total Depth	Deepest Form Penetrat	ed	Top of
ection	County	Depth (ft)	Elevation (ft)	Subsea (ft)	Name	Depth (ft)	Mancos (ft)
8	Uintah	6465	5808	- 657	Mesaverde	6165	
23	Uintah	6732	6555	- 177	Island	5758	
1	Uintah	6190	5458 GF	- 732	Mesaverde	4882	
2	Uintah	8037	5550	-2487	Mancos	7435	7435
2	Uintah	6505	5546 G	- 959	Mesaverde	5304	
8	Uintah	5671	5992 KB	+ 321	Wasatch	3704	
9	Uintah	6304	5719 G	- 585	Mesaverde	5289	
10	Uintah	7384	5735 G	-1649	Mancos	7280	7280
11	Uintah	5940	5875 G	- 65	Mesaverde	5178	
3	Uintah	623	5480 G	+4857	Uintah		
3	Uintah	5857	5480 G	- 377	Wasatch	2572	
4	Uintah	6649	5969 G	- 680	Mesaverde	5270	
5	Uintah	6476	5963 G	- 513	Mesaverde	5068	
16	Uintah	5950	5839 G	- 111	Wasatch	3280	
21	Uintah	5276	6093 G	+ 817	Mesaverde	5280	
22	Uintah	6243	6072 KB	- 171	Mesaverde	2120	
23	Uintah	5850	5732 DF	- 118	Mesaverde	4664	
B 0	Uintah	7388	5902 DF	-1486	Mancos	7350	7350
6	Uintah	5950	5207 DF	- 743	Mesaverde	2677	
7	Uintah	5840	5268 G	- 572	Mesaverde	4438	
8	Uintah	6569	5309 G	-1260	Mancos	6552	6552
18	uintah	223	5441 G	+5218	None		
18	Uintah	5581	5441 G	- 140	Mesaverde	4414	
19	Uintah	5600	5620 DF	+ 20	Wasatch	2100	
33	Uintah	3378	5764 DF	+3214	Mesaverde	4430	
5	Uintah	839	5533 DF	+4694	Green River	Surface	
22	Uintah	6300	5731 DF	- 569	Mancos 'B'	5847	5847

Name of Well	Operator	We Twnshp	11 Locati Range
Love Unit #A1-18	Cotton Petroleum	115	22E
East Bench Federal #1-23	Belco Development	115	22E
Rainbow Unit #4	Diamond Shamrock	115	23E
State #1	Stanolind Oil & Gas	115	23E
Rock House Unit #7	Diamond Shamrock	115	23E
Government #1-8	Diamond Shamrock	115	23E
Rock House Unit #4	Diamond Shamrock	115	23E
Rock House Unit #1	Diamond Shamrock	115	23E
Rock House Unit #3	Diamond Shamrock	115	23E
Rock House Unit #5	Diamond Shamrock	115	23E
Rock House Unit #5-A	Diamond Shamrock	115	23E
Rock House Unit #9	Diamond Shamrock	118	23E
Rock House Unit #2	Diamond Shamrock	118	23E
Rock House Unit H6	Diamond Shamrock	115	23E
Rock House Unit #11	Diamond Shamrock	118	23E
Rock House Unit #10	Diamond Shamrock	118	23E
Rock House Unit #8	Diamond Shamrock	118	23E
Bitter Creek #1	Honolulu Oil	118	23E
Rainbow Unit #5	Diamond Shamrock	118	24E
Rainbow Unit #3	Diamond Shamrock	118	24E
Rainbow Unit #1	Diamond Shamrock	118	24E
Rainbow Unit #2	Diamond Shamrock	115	24E
Rainbow Unit #2-A	Diamond Shamrock	118	24E
Rainbow Unit #6	Diamond Shamrock	115	24E
Oil Springs Unit #6	D. J. Stone	115	24E
Robertson Fee #1	Jack R. Robinson	118	25E
Evacuation Creek Fee #1	Continental Oil	118	25E

Exhibit #3
TRIGG DRILLING COMPANY
Cause No. TGF-106

					Total	Well	Total Depth	Deepest Formation Penetrated		Top of
0.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5		l Locatio		C	Depth	Elevation	Subsea	N	Depth	Mancos
Operator	Twnshp	Range	Section	County	(ft)	(ft)	(ft)	Name	(ft)	<u>(ft)</u>
El Paso Nat. Gas	135	17E	21	Carbon	3200	6468 DF	+3268	None		
H. M. Byllesby	13S	20E	5	Uintah	8520	6168 KB	-2352	Mancos	7970	7970
Sunray DX Oil Co.	13S	20E	12	Uintah	7316	5676 DF	-1640	Mancos	7222	7222
H. M. Byllesby Co.	13\$	20E	5	Uintah	6913	6139 KB	- 774	None		
Texaco, Inc.	135	20E	24	Uintah	LA			None		
Champlin Petro.	135	20E	24	Uintah	7649	6315 GL	-1334	Mancos	7050	7050
Sinclair Oil & Gas	135	21E	8	Uintah	3950	5936	+1986	Wasatch	2230	
Sinclair Oil & Gas	135	21E	8	Uintah	7428	5945	-1483	Mancos	7367	7367
Texaco, Inc.	13\$	21E	20	Uintah	12260	6261 KB	+5999	Entrada	12020	6959
Texaco, Inc.	135	21E	27	Uintah	LA			None	•	
Texaco, Inc.	135	21E	27	Uintah	LA			None		
Texaco, Inc.	135	21E	27	Uintah	10,605	5678 KB	-4927	Entrada	10000	5727
Continental Oil Co.	135	21E	27	Uintah	4215	5672	+1457	Mesaverde	3420	
Texaco, Inc.	135	22E	11	Uintah	12073	6500 KB	+5573	None		
Sinclair Oil & Gas	135	22E	14	Uintah	6600	6540 DF	- 60	Mancos	6590	6590
Texaco, Inc.	135	22E	14	Uintah	LA			None		
Texaco, Inc.	135	22E	14	Uintah	10782	6586 GR	-4196	Morrison	10716	6608
Sinclair Oil & Gas	135	22E	18	Uintah	6500	6038	-4162	Mancos	6397	6110
Texaco, Inc.	135	22E	22	Uintah	10537	6379 KB	-4158	None		
Texaco, Inc.	13\$	22E	23	Uintah	13125	6632 KB	-6493	Precambrian	13060	6350
Texaco, Inc.	13S	22E	24	Uintah	16757	6451 KB		Morrison	10304	6155
Texaco, Inc.	135	22E	26	Uintah	LA			None		
Texaco, Inc.	13S	22E	26	Uintah	10220	6575	-3645	Morrison	10044	6000
Texaco, Inc.	135	22E	35	Uintah	LA			None		
Woodward Oil Co.	135	23E	25	Uintah	6095	6478 GR	+ 383	Mancos	5725	5725
Skyline Oil Co.	135	23E	26	Uintah	5852	6478 G	+ 626	Castlegate	5611	
Skyline Oil Co.	135	23E	26	Uintah	4421	6437 RKB	+2016	Mesaverde	3862	
Skyline Oil Co.	135	23E	26	Uintah	254	6441 GR	+6187	Green River	92	
Exxon Corp.	135	23E	34	Uintah	9837	6390 GR	-3447	Dakota	9696	
Coseka Resources	135	24E	35	Uintah	4177	6661	-2484	Mesaverde	3420	
Continental Oil Co.	135	24E	15	Uintah	LA		2.0.	None		
C. F. Raymond	135	25E	17	Uintah	8840	7290 KB	-1550	Morrison	8714	4203
Coseka Resources	135	25E	29	Uintah	5792	7511 GR	+1719	Mancos	4188	4188
Coseka Resources	135	25E	35	Uintah	6120	7099 GR	+ 979	None		
Natural Gas Corp. of CA	135	25E	36	Uintah	LA	. 333		None		
Beartooth Oil & Gas	135	26E	7	Uintah	LA			None		
Coseka Resources	135	26E	31	Uintah	5420	7869 GR	+2449	Mancos	5356	4981
Diamond Shamrock	125	7E	7	Carbon	LA	. 003 un		None	2000	,,,,,,

Exhibit #3
TRIGG DRILLING COMPANY
Cause No. TGF-106

Operator .					Total	Well	Total Depth	Deepest Formation Penetrated		Top of
	Twnshp	Well Loc Range	ation Section	County	Depth (ft)	Elevation (ft)	Subsea (ft)	Name	Depth (ft)	Mancos (ft)
Diamond Shamrock	128	7E	8	Carbon		7752 GR	+1252	None		
Diamond Shamrock	12S	7E	10	Carbon	LA		None			
Three States Nat. Gas	12S	7E	22	Carbon	7917	8468 KB	+ 551	Salt Wash	7820	
Wexpro Company	128	10E	21	Carbon	4110	7568	+3458	Sunnyside	3509	
Paul T. Walton	125	12E	28	Carbon	3520	7343 KB	+3823	Middle	3410	
Wexpro Company	125	12E	34	Carbon	3190	7407	+4217	Gilson	3096	
Wexdro Company	12S	12E	34	Carbon	3000	7417 KB	+4417	Kenilworth	2985 -	
Trigg Drilling	12S	13E	16	Carbon	9182	6768 KB	-2414	Mancos	6920	6920
Sun Oil Company	12S	14E	3	Carbon	4500	6256 KB	+1756	Wasatch	1720	
Great Lakes Nat. Gas	12S	14E	13	Carbon	LA			None		
Chorney Oil Company	128	14E	11	Carbon	6025	7585 KB	+1560	Middle	3860	
Mobil Oil Corp.	12S	4E	13	Carbon	9802	7608 DF	-2194	Mancos	9446	9446
Sun Oil Company	125	14E	14	Carbon	5891	7743 GR	+1852	None		
Natural Gas Corp. of CA.	12S	14E	15	Carbon	7204	7651 KB	+ 447	None		
Texaco, Inc.	12S	15E	11	Carbon	8450	5597	-2853	Mesaverde	5240	
Sun Oil Company	128	15E	18	Carbon	5631	7456	+1825	Wasatch	2840	
Pacific Transmission	12S	15E	19	Carbon	7217	7523 GR	+ 306	Mesaverde	6700	
Pacific Transmission	12S	15E	22	Carbon	7006	7211 KB	+ 205	Mesaverde	7006	
Nat. Gas Corp. of CA	12S	15E	26	Carbon	6064	5966 KB	+ 98	Mesaverde	5052	
Pacific Transmission	12S	15E	27	Carbon	6405	6113 KB	+ 292	Mesaverde	6258	
Chevron Oil Company	12S	15E	29	Carbon	17261	6661 KB	-10600	Mississippian	17170	8302
Alamo Corp.	12S	15E	30	Carbon	5640	6826 DE	+1186	Wasatch	2165	
Mobil Oil Company	12S	15E	33	Carbon	5519	6364 KB	+ 845	Mesaverde	5300	
Getty 0il	12E	16E	28	Carbon	3094	6851 GR	+3757	Wasatch	2917	
El Paso Nat. Gas Co.	12S	16E	31	Carbon	2420	6149 DF	+3729	Wasatch	2215	
Getty 0il	12S	16E	32	Carbon	3276	6930 DF	+3654	Wasatch	2890	
Getty 0il	12 S	16E	32	Carbon	2330	6035	+3705	Wasatch	1844	
El Paso Nat. Gas Co.	12S	16E	33	Carbon	1880	7288	+5348	None		
Getty Oil	12S	16E	33	Carbon	3112	6853	+3741	Wasatch	2836	
Getty Oil	12S	16E	33	Carbon	3621	7228	+3607	Green River	Surface	
Getty Oil	12S	16E	33	Carbon	3540	7270 DF	+3730	Wasatch	3200	
Getty Oil	125	16E	33	Carbon	3550	7254 KB	+3704	Wasatch	3180	
Getty 0il	125	16E	33	Carbon	17956	6900 KB	-11056	Mississippian	17408	9080
Getty 0il	125	16E	34	Carbon	9373	6853 GR	-2520	Mancos	9310	9310
Reserve Oil & Gas Co.	125	16E	34	Carbon	LA			None		
Reserve Oil & Gas Co.	125	16E	35	Carbon	622	6768 GR	+6146	None		
Getty 0il	125	16E	36	Carbon	4984	6738 KB	+1754	Wasatch	2780	

Exhibit #3 TRIGG DRILLING COMPANY Cause No. TGF-106

Operator	W Twnshp	ell Loca Range	section	County	Total Depth (ft)	Well Elevation (ft)	Total Depth Subsea (ft)	Deepest Form Penetrate Name	ation d Depth (ft)	Top of Mancos (ft)
Getty Oil El Paso Nat. Gas Co. H. M. Byllesby & Co. Champlin Petro. Co. Diamond Shamrock Tenneco Oil Co. Tenneco Oil Co.	12S 12S 12S 12S 12S 12S 12S	16E 17E 20E 20E 21E 21E 21E	36 20 26 27 1 13	Carbon Carbon Uintah Uintah Uintah Uintah Uintah	LA 5136 7726 LA 5827 5546 6528	6669 DF 5648 KB 5935 DF 6017 G	+1533 -2078 + 108 + 471	None Wasatch Mancos None Mesaverde Wasatch	5000 est. 7610 est. 5738 3150	
Tenneco Oil Co. Gulf Oil Corp. Gulf Energy & Min. Tenneco Oil Co. Diamond Shamrock Sinclair Oil & Gas Delhi-Taylor Oil Amoco Production Sinclair Oil & Gas	12S 12S 12S 12S 12S 12S 12S 12S 12S	21E 21E 21E 21E 22E 22E 22E 22E 22E 22E	16 22 22 22 5 5 17 22	Uintah Uintah Uintah Uintah Uintah Uintah Uintah Uintah	6201 LA 15666 8294 7605 5787 5817 15082	6240 KB 6176 G 6378 GR 6375 KB 6263 DF 6025 G 6005 5989	- 288 - 25 -9288 -1919 -1342 + 238 + 190 -9093	Mesaverde Mesaverde None Mississippian Mancos Wasatch Mesaverde Mesaverde None	6003 6044 15120 8177 3599 5575 5156	8227 8177
Sky Hi Oil Company D. J. Stone D. J. Stone	12S 12S 12S	24E 24E 24E	24 14 2 3	Uintah Uintah Uintah	7400 3320	6193 G 6206 DF 6193 KB	-1207 +2872	Middle Wasatch	7400 2045	7330
D. J. Stone D. J. Stone Continental Oil D. J. Stone Synergy Resources	12S 12S 12S 12S 12S	24E 24E 24E 24E 25E	4 5 15 16 18	Uintah Uintah Uintah Uintah Uintah	5735 3228 3829 4350 3303	5890 G 5848 G 6116 DF 6395 6061 RT	+ 155 +2620 2287 +2024 +2758	"A" zone Wasatch Wasatch Mesaverde Wasatch	5515 2060 2100 3120 1990	5350
D. J. Stone Continental Oil Continental Oil Continental Oil Humble Oil & Refin. McCarthy Gas & Oil	12S 12S 12S 12S 12S	25E 25E 25E 25E 10E	18 18 18 18 27	Uintah Uintah Uintah Uintah Uintah Carbon	8300 4886 2667 4170 3498 3154	5799 KB 6302 DF 6278 6278 6184 7426 DF	+2501 +1416 +3611 +2108 +2686 -4272	Morrison Mancos Wasatch Mewsaverde Mesaverde	8208 4705 2030 2695 2603	4210 4705
A. A. Seeligson, Jr. Pan American Humble Oil & Refining Pacific Transmission	11S 11S 11S 11S	12E 13E 14E 14E 14E 14E	14 20 12 22 32 36	Duchesne Duchesne Duchesne Duchesne Duchesne Duchesne	2240 5733 4505 7773 6435	6860 KB 7033 DF 7242 DF 6207 KB 5923 KB	+1127 +2528 - 531 - 228 - 460	Mancos None Mesaverde Wasatch Mesaverde Wasatch Castlegate	2780 5610 3783 7746 4743 6240	2780

Exhibit #3
TRIGG DRILLING COMPANY
Cause No. TGF-106

					Total	Well	Total Depth	Deepest Forma Penetrate	ed	Top of
		1 Locat			Depth	Elevation	Subsea		Depth	Mancos
Operator	Twnshp	Range	Section	County	(ft)	<u>(ft)</u>	<u>(ft)</u>	Name	<u>(ft)</u>	<u>(ft)</u>
Miami Oil Producers	115	15E	2	Duchesne	4860	7136 KB	+2276	Mesaverde	6270	
Miami Oil Producers	115	16E	3	Duchesne		6930 KB	+1643	Wasatch	5172	
Diamond Shamrock	115	16E	23	Duchesne		5805 DF	+ 318	Wasatch	4136	
Humble Oil & Refining	118	16E	29	Duchesne		6569 DF	+1381	Basa Chapita	4727	
El Paso Nat. Gas	115	16E	31	Duchesne	3808	6494 DF	+2691	Wasatch	3264	
Phillips Petroleum	115	17E	5	Duchesne	6310	6332 DF	+ 22	Wasatch	4857	
Lion Oil Company	118	17E	27	Duchesne		5618 KB	- 386	North Horn	4950	
Cotton Petroleum	115	19E	11	Uintah	8300	5622	-2678	Mesaverde	7350	
Diamond Oil & Gas	115	19E	29	Uintah	8638	5681 KB	-2957	Mesaverde	6722	
Cotton Petroleum	115	20E	10	Uintah	6900	5176 GR	-1724	Mesaverde	6150	
Belco Petroleum	118	20E	29	Uintah	8830	5564 DF	-3266	Mesaverde	6500	
Diamond Shamrock	115	21E	1	Uintah	7300	5567 GR	-3366	Mesaverde	6658	
Cotton Petroleum	118	21E	3	Uintah	6974	5499	-1475	Mesaverde	6520	
Cotton Petroleum	115	21E	4	Uintah	7232	5421	-1811	Mesaverde	6526	
Cotton Petroleum	115	21E	5	Uintah	LA			None		
Pacific Gas Trans.	115	21E	7	Uintah	9829	5552 KB	-4277	Mancos	9627	9627
Alamo Corporation	118	21E	7	Uintah	8520	5497 KB	-3023	Mesaverde	7450	
Marathon Oil Co.	118	21E	8	Uintah	5520	5524 KB	+4	Colton	3990	
Gilman Hill	115	21E	8	Uintah	9600	5476 KB	-4124	Mancos	9512	9512
Cotton Petroleum	115	21E	9	Uintah	LA			None		
Cotton Petroleum	115	21E	10	Uintah	7000	5581 GR	-1419	Mesaverde	6698	
Gilman Hill	118	21E	11	Uintah	2924	5617 GR	+2690	None		
							(temp.	susp.)		
Cotton Petroleum	118	21E	11	Uintah	8069	5692 KB	-2377	Mesaverde	6650	
Cotton Petroleum	118	21E	12	Uintah	8000	5642 GR	-2358	Mesaverde	6568	
Humble Oil & Refining	115	21E	14	Uintah	6736	5726 KB	-1010	Mesaverde	6704	
Cotton Petroleum	115	21E	14	Uintah	LA			None		
Cotton Petroleum	118	21E	15	Uintah	LA			None		
Cotton Petroleum	115	21E	17	Uintah	LA			None		
Humble Oil & Refining	115	21E	21	Uintah	9538	5743 DF	-3795	Wasatch	3790	
Great Lakes Nat. Gas	115	21E	21	Uintah	5047	5766 KB	- 719	None		
Cotton Petroleum	115	21E	23	Uintah	LA			None		
Enserch Exploration	115	22E	3	Uintah	8310	5149 KB	-3161	Mesaverde	7164	
Diamond Shamrock	115	22E	8	Uintah	7200	5608 GR	-1592	Mesaverde	6423	
Stanolind Oil & Gas	115	22E	10	Uintah	5500	5300	- 200	Mesaverde	5240	
Diamond Shamrock	115	22E	13	Uintah	5349	5370 KB	+ 21	Wasatch	3164	



4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

June 15, 1982

Trigg Drilling Company, Inc. 2122 Western Federal Svgs. Bldg. Denver, Colorado 80202

> Re: Well No. Keel Ranch Unit #1-16 Sec. 16, T. 12S, R. 13E. Carbon County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office November 13, 1981, from above referred to well, indicates the following electric logs were run: Induction-GR-SP, CBL, CNL-Density, Acoustilog, Welex frac finder. As of todays date, this office has not received these logs.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

We have a request for the above logs. It would be greatly appreciated if you would promptly send them in.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cari Furse Clerk Typist

Attachment Keel Ranch Unit #1-16 Section 16-12S-13E Carbon County, Utah

Trigg Drilling Company, Inc.

Perforation Record

12,590-603', 2 JSPF

12,420-432', 2 JSPF

12,280-286', 2 JSPF

12,294-304', 2 JSPF

12,188-196' and 12,177-183' and 12,166-171', 2 JSPF

11,600', 4 shots

11,374-420', 2 JSPF

4 sqz holes @ 8270'

8084-81341

Acid, Shot, Fracture, Cement Squeeze, Etc.

12,590-603', 1000 gal 7½% HCl, 77 bbl 2% KCl

12,420-432', 1000 gal 7½% HC1

12,280-286' and 12,294-304', 1000 gal $7\frac{1}{2}\%$ HC1

12,188-196' and 12,177-183' and 12,166-171', 1500 gal $7\frac{1}{2}\%$ HCl and 80 RCN balls followed by 10 bbls Methanol and 79 bbls 2% KCl

11,600', sqz w/300 sxs Class "G"

11,374-420', 2000 gal $7\frac{1}{2}\%$ HCl and 100 ball sealers

4 sqz holes @ 8270', 300 sxs Class "G" disp w/2% KC1

 $8084\text{--}8134\text{'}\text{,}\ 2500\text{ gal }7\frac{1}{2}\%$ spearhead and 80 RCN balls followed by 40 bbls 2% KCl

Fracture

55,000 gal apollo gel w/24,500 # 20-40 sd and 14,000 # 20-40 bauxite



4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

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55,000 gal apollo gel w/24,500 # 20-40 sd and 14,000 # 20-40 bauxite

SUBMIT	IN	DUPLICAT	E

	 ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
STATE OF UTAH	Seco

			OF UTAH			(See other it	n ———	
	OIL & G/	AS CONSERV	ATION CO	MMISSIO	N	reverse side		IGNATION AND SERIAL NO
WELL CO	OMPLETION	OR RECO	MPLETION	REPORT	AND	LOG*	6. IF INDIAN,	ALLOTTEE OR TRIBE NAME
ia. TYPE OF W	ELL: OH		X DRY	Other			7. UNIT AGREE	MENT NAME
b. TYPE OF CO			_	Other			Keel Ra	
WELL	OVER EN	EP. X PLEG C	DIFF. RESVR.	Other			S. FARM OR LI	
2. NAME OF OPER		-	·				Keel Ra	nch Unit
	Drilling Co	mpany, Inc					9. WELL NO.	,
3. ADDRESS OF OR				_	_	·	1-16	
2122 We	estern Fed.	Svgs.Bldg.,	Denver, C	olorado	80202		10. FIELD AND	POOL, OR WILDCAT
At surface	1468' FEL,	on clearly and in a	ccordance with a	iny State requ	irements) *		Wildcat	
At ton need to	nterval reported be						OR AREA	M., OR BLOCK AND SURVEY
at top prod. i.	aterval reported be	as abo	ove				Section	16-12S-13E
At total depth	as above	2					bección	10 125-155
			14. PERMIT N	0.	DATE ISSUE	ED	12. COUNTY OR PARISH	13. STATE
15 - 12							Carbon	Utah
15. DATE SPUDDED	1	REACHED 17. DATE	COMPL. (Ready	to prod.) 1	8. ELEVATIO:	NS (DF, RKB,	RT. GR. ETC.) *	19. ELEV. CASINGHEAD
2/28/81 20. TOTAL DEPTH, MI	7/6/81		10/23/81		6755 G		4 KB	6755
	1	G, BACK T.D., MD &	HOW	LTIPLE COMPL	í	INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
12,646	FRVAL(S) OF THIS	3242 COMPLETION—TOP.				>	al1	
or reopering in i	Zaval(S), OF THIS	COMPLETION-TOP,	BOTTOM, NAME	(MD AND TVD)	•			25. WAS DIRECTIONAL SURVEY MADE
8084-8134'	Mancos							No
28. TYPE ELECTRIC	AND OTHER LOGS	RUN					1 9	7. WAS WELL CORED
Induction-	CR-SP CRI	CNL-Densit	Acoust	1100 /110	1	- 6 1	1 -	
28.	GR OI & CDL	CASI:	YG RECORD (Re	LIOS NWE.	lex ira	c finde:	<u>r </u>	<u>No</u>
CASING SIZE	WEIGHT, LB./			OLE SIZE	a set in wett	CEMENTING	RECORD	AMOUNT PULLED
9-5/8"	36#	1690	1:	2½"	300 s	xs Halco	o lite &	ANOUST FULLED .
				······	-	sxs Cla		
5½''	17#	12,64	6'	7-7/8"	-}	ks 50-50		
					<u> </u>	<u> </u>	J POZ	
29.		LINER RECORD			30.		TUBING RECORI	D
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (M	(D) S	IZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7	7/8"	8230'	
I. PERFORATION RE	CORD (Interval, siz	ta and number						
	cons (intereus, si	ie una number)		32.	ACID, SF	IOT, FRACT	URE, CEMENT S	QUEEZE, ETC.
Coo attail	_ 1			DEPTH INT	PERVAL (MD) 431	OUNT AND KIND	F MATERIAL USED
See attach	ea				See	<u>at</u>	tached	
3.•			PRO	DUCTION		1		
ATE FIRST PRODUCT	1.1020	CTION METHOD (FI			and type of	pump)		itus (Producing or
SI		Flowing					shut-in	
10 /02 /01	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL-BBL.	GAS-	-MCF.	WATER-BBL.	GAS-OIL RATIO
10/23/81	7			tr		129.5	0	_
570	CASING PRESSUR	E CALCULATED 24-HOUR RATE	OIL-BBL.	GAS-		WATER-	-BBL. Off	GRAVITY-API (CORR.)
	Oss (Sold, used for		tr	4	44	0		•
Vented	ras (suia, usea for	juei, venied, etc.)					TEST WITHESSED	BT
5. LIST OF ATTACH	MENTS						C. Balde	es
	keţch and p	erf record						
6. I hereby certify	that the foregoin	and attached info	rmation is com-	ilata and	at a = 3 :			
The state of the s	11 201 5 6/2	Y					an available recor	ds
SIGNED	myr a pro	enver .	TITLE	Division	n Manag	er	በ.ምኮ	11/13/81
	*/\$-	Instructions and					JAIL _	
	1700	INSTRUCTIONS OF	A					

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leaves to reduce and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and of the completions. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

For instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

For instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

For instructions on items and of the time this submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), considered by applicable Federal and/or State laws and regulations. All attach out a should be listed on this form, so item 35.

Hen 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local or Federal office for specific instructions.

Hem 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Hems 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and mane(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately individual interval to be separately produced, showing the additional interval.

Hem 29: Sacks Cement: Attached supplemental records for this well should show the details of any multiple stage cementing and the cementing tool.

Hem 33: Submit in separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

ARKERS	T()1.	MEAS. DUITH TRUBVERT, DEPTH	11,260	12,000			- Se despuis de despuis de la constantina della	 	 	
GEOLOGIC MARKERS		MEA	Ferron 11	Dakota 12						
DING 38.	:		1 70	96				 	 	
MARY OF POROUS ZONES: betti intratant zones of porosity and contents therrof; cored intrevals; and all drillstem tests, including detti intratal tested, chrison used, tims tool opkn, plowing and shut-in pressures, and recoveries	DESCRIPTION, CONTENTS, ETC.		10 10 10 10 10 10 10 10 10 10 10 10 10 1	All periorated intervals tested tight except for 12,100-12,190 which tested gas at 2.6 MMCFD but depleted in three days.	•					
DRED, TIME TOOL OFKN	ROTTOM			ed gas at						
OUS ZONES: ITANT ZONES OF POS TESTED, CURHION I	TOF		. 4	which tes						
37. SUMMARY OF POROUS ZONES SHOW ALL IMPORTANT ZONES DEPTH INTRRVAL TESTED, CHRI	FORMATION		Ferron and	Dakota	\$ · · ·		i e e e e e e e e e e e e e e e e e e e			

WILL DATA SHEET

WLLL DATE	
OPERATOR' L. L. C.	_ WELL _ Kon L 1/mit # 1-16_
FIELD Kall LILL CO	WELL Kind is the # 1-16 UNTY Color STATE Utok
LOCATION 2: 14 125-13=	
ELEV. 6744 KB 2755 G.L. SPUD DAT	$1E \frac{2/28/81}{28/81} COMP. DATE \frac{10/23/81}{28/81}$
T. D. 12,646 P.B.T. D. 9230 FORM.	
DRAWING NOT TO SCALE	
	COMPLETION & WORKOVERS
Perf 8084-8134 2-53PF 2-53PF CIRP Q 2242'	25/8" csa & 1490' Cmt w/300 sss Halco lite 200 svs Class" G" 200 svs
11,374-420 2 JSFF	#
11,600 tilots =	Jee w/300 3x3 Class G.

SUB! N TRIPLICATE* (Out... instructions on reverse side)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OUR GAS AND MINING

	DIVISIO	MINING	5. LEASE DESIGNATION AND BERIAL NO.			
	SUNDRY NOTIC (Do not use this form for proposa Use "APPLICAT				6. IF INDIAN, ALLOTTES OR TRIBE NAME	
ī.			101 50	ou proposate.	7. UNIT AGREEMENT NAME	
2	OIL GAS WELL OTHER				Keel Ranch	
4.	Trigg Drilling Company,	Inc.				
8.	ADDRESS OF OPERATOR				Keel Ranch Unit 9. WBLL NO.	
	2122 Western Federal Sa				1-16	
4.	LOCATION OF WELL (Report location cleans also space 17 below.) At surface	arly and in accordance	e with	any State requirements.	10. FIELD AND POOL, OR WILDCAT	
	1468' FEL, 1800'	FNL			Wildcat 11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA	
					Section 16-T12S-R13E	
14.	PERMIT NO.	15. ELEVATIONS (Show	whethe	er DF, RT, GR, etc.)	12. COUNTY OR PARISH 18. STATE	
					Carbon Utah	
16.	Check App	ropriate Box To I	ndicate	e Nature of Notice, Report, o	r Other Data	
	NOTICE OF INTENTIO	ON TO:		auba	SEQUENT REPORT OF:	
	TEST WATER SHUT-OFF PU	LL OR ALTER CASING		WATER SHUT-OFF	REPAIRING WELL	
	FRACTURE TREAT MU	LTIPLE COMPLETE		FRACTURE TREATMENT	ALTERING CASING	
	SHOOT OR ACIDIZE AB.	ANDON*		SHOUTING OR ACIDIZING	ABANDONMENT*	
		ANGE PLANS		, , , , , , , , , , , , , , , , , , , ,	Report - June, 1981	
	(Other)			Completion or Reco	mpletion Report and Log form.)	
- • •	proposed work. If well is directions nent to this work.) *	lly drilled, give subs	urface	locations and measured and true ver	tes, including estimated date of starting any tical depths for all markers and zones perti-	
	May 31, 1981 - Drilling	@ 10,631'				
	June 30, 1981 - Drillin	g @ 12,450'			PRECENTED	
					JUL, and is a	
					and a second sec	
					DIVISION OF OIL, GAS & MINING	
		·				
	/ /					
18.	I hereby certify that the foregoing is t	rue and correct		- 11/		
	SIGNED Lugh Elawey		TLE _	Division Engineer	July 7, 1981	
	(This space for Federal or State office	use)				
	APPROVED BY	T	TLE		DATE	



SUITE 2122 • 718 17th ST. • WESTERN FEDERAL SAVINGS BLDG. DENVER, COLO. 80202

May 5, 1981

TELEPHONE 303/623-0070

JACK E. TRIGG JOE DAN TRIGG

> State of Utah Division of Oil, Gas & Mining 1588 West, North Temple Salt Lake City, Utah 84116

> > Re: Keel Ranch Unit #1-16

Section 16-T12S-R13E Carbon County, Utah

Gentlemen:

Enclosed is a sundry notice for the above-captioned well, depicting the resuming of operations on May 2, 1981.

Please do not hesitate to contact me if you should have any questions.

Sincerely,

TRIGG DRILLING COMPANY, INC.

Hugh E. Harvey, Jr. Division Engineer

HEH/ck

enclosure

MMY GO

DIVISION OF OIL DAD & MINING

SUD: AT IN TRIPLICATES (Other instructions on reverse side)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

	DIVIS	ION OF OIL, GAS,	AND MININ	G		5. LEASE DESIGNATION AND SERIAL NO.		
		ICES AND REP				6. IF INDIAN, ALLOTTER	OR TRIBE NAME	
i.						7. UNIT AGREEMENT NA	M3	
WELL GAS WELL	OTHER					Keel Ranch		
NAME OF OPERATOR						8. FARM OR LEASE NAM	1	
Trigg Drilling	Company,	Inc.				Keel Ranch U	nit	
. ADDRESS OF OPERATOR						9. WELL NO.		
2122 Western Fe	deral Sa	vings Bldg., D	enver, Co	lorado 80202		1-16		
. LOCATION OF WELL (Reg See also space 17 below At surface	ort location o	learly and in accordance	e with any State	e requirements.*		10. FIELD AND FOOL, OR Wildcat	WILDCAT	
1468' FEL, 1800	' FNL					11. SEC., T., E., M., OR BE SURVEY OR AREA	LK. AND	
. PERMIT NO.	·-····································	15. ELEVATIONS (Show	whether DF, RT,	DR, etc.)		16-12S-13E	18. STATE	
		6755'	GR			Carbon	Utah	
3.	Charla A	D. T. I.	J NI	(1) 0		4		
	-	ppropriate Box To Ir	alcate Natur	e of Notice, Report	, or U	ther Data		
NO	ICE OF INTEN	TION TO:			UBABQUI	INT REPORT OF:		
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING W	ELL	
FRACTURE TREAT		MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CA	BING	
SHOOT OR ACIDIZE	H .	ABANDON*		SHOUTING OR ACIDIZIN		ABANDONMEN	├	
REPAIR WELL	·	CHANGE PLANS				e operations	X X	
(Other) '. DESCRIBE PROPOSED OR CO proposed work. If w		1				of multiple completion of tion Report and Log for		
Company, Rig #9 1100 psi, and t					e pip	e were tested	to	
					ger t			
						1377 X		
						i verene. Të she zeme	per la companya di salah s	
SIGNED CERTIFY that the	foregoing to		rLE Divisi	ion Engineer		DATE May 5	, 1981	
(This space for Federal	or State offic	e use)			·			
APPROVED BYCONDITIONS OF APPI	OVAL, IF A		rle		····	DATE		



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING 1588 West North Temple Salt Lake City, Utah 84116

1 7 1981

DEFENDA OF CIL CAS & MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Keel Ranch Unit #1-16	
Operator Trigg Drilling Company, Inc. Address Denve	Western Federal Svgs. Bldg r, Colorado 80202
Contractor Veco Drilling Co. Address Grand	705 Junction, Colorado 81501
Location SW 4 NE 4 Sec. 16 T. 12S R.	13E County Carbon
Water Sands	
<u>Depth</u> <u>Volume</u>	Quality
From To Flow Rate or Head	Fresh or Salty
1. NONE	
2	
3	
4	
5	
(Continue of reverse side if nece	ssary)
Formation Tops	
Remarks	
Hole was re-entered and deepened from 9180' to 12,6	46'.

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
 - (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

SUBA AN TRIPLICATE* (Other instructions on reverse side)

STATE OF UTAH **DEPARTMENT OF NATURAL RESOURCES**

DIVISION	DIVISION OF OIL, GAS, AND MINING						
SUNDRY NOTICE (Do not use this form for proposals Use "APPLICATI	ES AND REPORTS to drill or to deepen or plug ON FOR PERMIT—" for such		6. IF INDIAN, ALLOTTEB OR TRIBE NAME				
ī.		•	7. UNIT AGREEMENT NAME				
OIL GAS OTHER			Keel Ranch Unit				
2. NAME OF OPERATOR	т.		8. FARM OR LEASE NAME				
Trigg Drilling Company,	inc.		Keel Ranch Unit				
8. ADDRESS OF OPERATOR	Dida Damasa Ca	1 amode 90202	9. WELL NO.				
2122 Western Fed. Svgs.	_		1-16				
4. LOCATION OF WELL (Report location clear See also space 17 below.) At surface	ly and in accordance with an	y State requirements."	10. PIELD AND POOL, OR WILDCAT				
			Wildcat 11. SEC., T., R., M., OR BLK. AND				
1468' FEL, 1800' FNL			AURVEY OR AREA				
			Section 16-T12S-R13E				
14. PERMIT NO.	15. BLEVATIONS (Show whether I	of, RT, GR, etc.)	12. COUNTY OR PARISH 18. STATE				
	6755' GR		Carbon Utah				
16. Check Appro	opriate Box To Indicate (Nature of Notice, Report, or	Other Data				
NOTICE OF INTENTION	f TO :	8038	BQUENT REPORT OF:				
TEST WATER SHUT-OFF PULL	OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL				
FRACTURE TREAT MUL	TIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING				
SHOOT OR ACIDIZE ABAR	idon*	SHOUTING OR ACIDIZING	ABANDONMENT*				
J	NGE PLANS		ess Report				
(Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERAT.		Completion or Recor	npletion Report and Log form.)				
Progress Report:	anneal and substitute load	and measured and time yer	tical depths for all markers and zones perti-				
8/1/81 Completing							
PU pkr. TIH to 12,367'.	Set pkr. NU tree.	Test pkr to 2000#,	ok. SWI.				
8/31/81 SI. WO evaluati	on.						
		Λ	1				
		and a second)]				
		president 7-9					
8. I hereby certify/that the foregoing is tru	e and correct		***************************************				
SIGNED Dught James	1	vision Engineer	DATE 10/5/81				
(This space for Federal or State office u	se)						
APPROVED BY	TITLE		DATE				
CONDITIONS OF APPROVAL, IF ANY							

November 6, 1981

Trigg Drilling Company 2122 Western Fed. Svgs. Denver, Colorado 80202

> Re; WELL NO. Keel Ranch Unit #1-16 Sec. 27, T. 41S R. 26E. San Juan County, Utah

Gentlemen:

This letter is to advise you that the Recompletion Report and Log for the above mentioned well, is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicated and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

SANDY BATES
WEERKCLERK

CONDITIONS OF APPROVAL, IF ANY:

SUBA (N TRIPLICATE) (Other instructions on reverse side)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OUL GAS AND MINING

	DIVI	5.	5. LEASE DESIGNATION AND SERIAL NO.						
{Do not u	SUNDRY NC	OTICES AND R	EPORT	S ON WEL	LS rent reservoir.	6.	IF INDIAN, ALLO	TTEE OR TRI	BE NAME
ī.					 	7.	UNIT AGREEMEN	T NAMB	····
WELL L	WELL X OTHER						eel Ranch		
2. NAME OF OPER	ATOR					8.	FARM OR LEASE	NAMB	
Trigg Dri	illing Compar	y, Inc.					eel Ranch	Unit	
		C D1 1-	D		00000				
4. LOCATION OF W	ELL (Report location	Svgs. Bldg., clearly and in accord	ance with	any State requirer	nents.*		-16 FIELD AND POO	L, OR WILDC	AT
See also space At surface	17 below.)					W	ildcat		
							SEC., T., R., M.,	OR BLK. AND	
1468' FEI	L, 1800' FNL							10-4	
1400 FEI	1, 1000 FND						ection 16		
12. PERMIT NO.		15. ELEVATIONS (S		r DF, RT, GR, etc.)		COUNTY OR PA		_	
		6755	GR			I C	arbon	Utal	h
.6.	Check A	Appropriate Box To	Indicat	e Nature of No	otice, Report, c	r Other	Data		
	NOTICE OF INTE	INTION TO:		1	SUB	BEQUENT	REPORT OF:		
TEST WATER &	HUT-OFF	PULL OR ALTER CASIF	16	WATER	SHUT-OFF		REPAIRI	NO WELL	
FRACTURE TRE	AT	MULTIPLE COMPLETE			RE TREATMENT	П		G CABING	
SHOOT OR ACIE	PIZE	ABANDON*		вноот	ING OR ACIDIZING		ABANDO	MENT*	
REPAIR WELL		CHANGE PLANS		(Other		ess R		4 77-11	X
(Other)		PERATIONS (Clearly Sta		(Note: Report res ompletion or Reco	mpletion	Report and Log	g form.)	
Progress	vork.) -	ionally drilled, give s				•			
1/1/82	Waiting o	n pipeline.							
1/31/82	Waiting o	n pipeline.			_		-000G		
					RE	MAR	0 5 1982		
					01	DIVIS L. GAS	SION OF S & MININ	1G	
8. I hereby certify	that the foregoing	true and correct	TITLE	Division E	Ingineer			2/26/82	
							DATE		
(This space for	Federal or State of	ice use)							
APPROVED BY	7		TITLE				T) 4 (77)		



Exhibit #3 TRIGG DRILLING COMPANY Cause No. TGF-106

	DIVISION OF CIL. GAS & MINING	We	11 Locat	ion		Total Depth	Well Elevation	Total Depth Subsea	Deepest F Penetr
Name of Well	Operator	Twnshp	Range	Section	County	(ft)	(ft)	(ft)	Name
T. F. Kearns #1	Three States Nat. Gas	135	6E	13	Carbon	5823	8622	-2799	Ferron
Federal #1-23	Superior Oil Co.	135	6E	23	Carbon	362	9059 G	+8697	Blackhawk
State #1 (Elbow Unit 1)	Stanolind Oil & Gas	135	7E	15	Carbon	6502	9214	+2712	Ferron
Kaiser Steel #1	Energetics Inc.	13S	7E	16	Carbon	LA			None
Utah Fuel Fee #7	Cordillera Corp.	13S	7E	17	Carbon	4250	8065 KB	+3815	Ferron
Utah Fuel Fee #8	Cordillera Corp.	13\$	7E	19	Carbon	4390	8300 KB	+3910	Ferron
Clear Creek Unit #18	Cordillera Corp.	13\$	7E	20	Carbon	LA			None
Kaiser Steel #1	Energetics Inc.	135	7E	21	Carbon	5915	8200 GR	+2285	Cedar Mounta
Utah State ML 1256 #1	Cordillera Corp.	13\$	7E	29	Carbon	4850	8595 G	+3745	Ferron
Utah Fuel Fee #4	Cordillera Corp.	13S	7E	30	Carbon	5820	9305 DF	+3485	None
Utah Fuel Fee #5	Cordillera Corp.	13\$	7E	31	Carbon	6225	9745 KB	+3520	None
Utah Fuel Fee #2	Cordillera Corp.	13S	7E	32	Carbon	4785	8771 KB	+3986	Ferron
Utah Fuel Fee #3	Cordillera Corp.	13S	7E	32	Carbon	4399	8459 KB	+4060	Ferron
Coal Creek State #2	R. W. Pease	135	11E	15	Carbon	4720	6310	+1590	Dakota
Federal #1	S. D. King & Son	13S	11E	19	Carbon	4885	6858 DF	+1965	Cedar Mounta
Federal #5	Williard Pease O&G	13S	11E	19	Carbon	4900	6750 KB	+1850	Cedar Mounta
Price Federal #3	Williard Pease O&G	13S	11E	19	Carbon	5015	6695 KB	+1680	Cedar Mounta
Coal_Creek #1	Williard Pease O&G	13S	11E	28	Carbon	4300	6182 KB	+1882	None
Mt. Bartles Fee #1	Mt. Fuel Supply Co.	135	14E	9	Carbon	9864	9268 KB	- 376	Mancos
Preston-Nutter 1	Gulf Oil Corp.	135	14E	24	Carbon	2685			Green River
Claybank Springs Unit #2	Alamo Corp.	13S	15E	11	Carbon	5610	7295 DF	+1685	Wasatch
Peter's Point Unit	Getty Oil	13\$	16E	1	Carbon	4754	6761 KB	+2007	Wasatch
Beard #1-3	Getty Oil	135	16E	3	Carbon	3100	6821 GR	+3721	Wasatch
Jack Canyon Unit #2	El Paso Nat. Gas Co.	13S	16E	7	Carbon	6201	6949 DF	+ 748	Wasatch
Peter's Point Federal #1-10	Chorney Oil Co.	135	16E	10	Carbon	5105	6750 KB	+1714	Mancos
Peter's Point #6	El Paso Nat. Gas Co.	135	16E	11	Carbon	4685	6797 KB	+2112	Wasatch
Peter's Point #13	Getty Oil Co.	13\$	16E	12	Carbon	3750	5505 GR	+1755	Wasatch
Peter's Point #14-9	Getty Oil Co.	135	16E	14	Carbon	3200	6685 KB	+3485	Wasatch
Peter's Point #4	Getty Oil Co.	13\$	16E	24	Carbon	5140	7015 KB	+1875	None
Peter's Point #5-14	Getty Oil Co.	13\$	17E	5	Carbon	3300	5160 KB	+1860	Middle
Peter's Point #1 C.S.	Getty Oil Co.	135	17E	6	Carbon	8309	6715 KB	+1594	Mesaverde
Peter's Point Unit #10	Kimbark Operating	135	17E	6	Carbon	4846	6744 KB	+1898	Chadita
Peter's Point #14	Reserve Oil, Inc.	135	17E	7	Carbon	1678	5735 GR	+4057	Wasatch
Peter's Point Unit	Getty Oil	13S	17E	8	Carbon	4833	6658 KB	+1852	Wasatch
Peter's Point Unit #15	Getty Oil	13S	17E	8	Carbon	LA			None
Peter's Point #7	El Paso Nat. Gas	13S	17E	18	Carbon	5147	6933 DF	+1786	Wasatch

TRIGG DRILLING COMPANY

Chromatographic Gas Analysis Report

Exhibit #8

Well Name:

Keel Ranch #1-16

Operator: Location:

Trigg Drilling Company Section 16, Ti2S, R13E

Carbon, Utah

Date Sampled:

12-18-81

Type of Sample: Spot

Comf.	Mole%			
Propane	2.5380			
1-Butane	0.5969			
N-Butane	0.9489			
I-Pentane	0.3507			
N-Pentane	0.2649			
Hexane +	0.2086			
C02	0.1979			
Ethane	4.5971			
Ņitrogen	0.1803			
Methane	90.1097			
-	100.0			

100.0 Totals

Specific Gravity: 0.643 BTU/CU.FT: 1123.27

Observed SP. GR. 0.639 Observed BTU/CU.FT: 1127

JUN 22 1982

DIVISION OF OIL, GAS & MINING

Heating Value @ 30 In. HG., 60 DEG F. WET

Data Source:

Mountain Fuel Supply 625 Connecticut Ave.

P.O. Box 1129

Rock Springs, WY 92901 (307) 362-5611

TRIGG DRILLING COMPANY Oil Production Summary Exhibit #9

KEEL RANCH UNIT SW, NE, Section 16, Township 12S, Range 13E Carbon County, Utah

Month	Year	Days Produced	Barrels Of Oil	Avg. Daily Oil Prod. Barrels
Febuary	1982	4	5.0	1.25
March	1982	25	35.0	1.40
April	1982	21	2.5	0.12

During 50 days of production an average of 0.85 barrels of oil was produced.

Data Source: Report of Operations and Well Status Report Division of Oil and Gas Conservation

State of Utah

resource services international, inc. 1380 LAWRENCE, SUITE 600+DENVER, COLORADO 80204+(303) 623-1802

June 21, 1982

State of Utah Natural Resources & Energy Oil, Gas & Mining Division 4241 State Office Building Salt Lake City, UT 84114

Attn: Paula J. Frank/Cleon B. Feight

Dear Sir:

Enclosed are the following exhibits to be used in Cause T6F #106.

1) Base Map

2) Lease Base Map

3) Tabular Well Data

- 4) Structural Contour Map
- 5) North-South Cross Section
- 6) West-East Cross Section
- 7) Insitu Permeability Data8) Chromatographic Gas Analysis Report
- 9) Oil Production Summary

DIVISION OF OIL, GAS & MINING

JUN 23 1982

Thank you.

Submitted,

RESOURCE SERVICES INTERNATIONAL, INC.

Resource Services International, Inc.

Trigg Drilling Company Insitu Permeability Data Cause TGF #106 Exhibit #7

Page 1 of 13

Determination of insitu permeability was taken from two compplete tests, 1) the original drill stem test over the Mancos interval and 2) a shut in pressure build-up test of 160 hours run in June, 1982. The calculations from both tests concluded that the insitu permeability was definitely below the 0.1 millidarcy criterion set forth by the FERC. Information from both tests are presented.

B. E. W.

B. E. Whitham, T.D.C.

KETH M. KERSCH - CONSULTING PETROLEUM ENGINEER
LITTLETON, COLORADO 80120 • (303) 797-8196

433 W. EASTER AVE.

May 25,1982

Bill Donovan
Resource Services International
1380 Lawrence, Suite 600
Denver, Colo 80204

Re: Keel Ranch 1-16 Drillstem test

DG+ 8097'-8140"

Dear Bill:

I have examined the referenced different test over the interval from 8097 \$1 to 8140 \$1. The test was conducted nearly 20 years ago so the data is not complete, In spite of this, I feel that the permeability exhibited by this well is below 0.1 md. which qualifies it to be classed as a tight formation gas well. From the test I calculated a permeability of 0.053 and and an effective shim factor of 5'= 0.063. From the test configuration

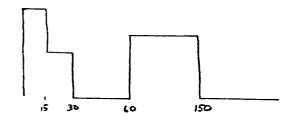
an effective shin factor of 3'= 0.063. From the test configuration of calculated that wellbone storage should die out by 1.3 hours. The test lasted 1.5 hours so the data should be analyzable by Horner plot.

Figure I shows Homer plots of the first and second shut in puisds. This plot were a pseudo time function which attempts to account for rate variations. The method is discussed in more detail on the attached sheets.

If we oscume a skin factor of -5 (typical of a small fracture treatment), the increased wellows storage coefficient would cause storage to last about 13 hours during a normal fall off test. A 72 hour buildup test should yield results that would enable us to calculate a reasonable insitu permeability.

Sincerely Keith M Kersch ANALYSIS OF D.S.T.

The assumed rate history used in the analysis is:
Time of rate change (min) 15 30 60 150 340
rate (MCF/D) 1233 670 0 850 0



This rate history can be used to calculate a pseudo time function as follows

$$\log(T) = \frac{1}{q_N} \sum_{i=1}^{n} (q_i - q_{i-1}) \log(t - t_{i-1})$$

This time function is plotted in figure 1. Notice how the first and second shut in periods do not extrapolate to the same pressure. This is typical of extreme depletion (which does not seem realistic).

$$\frac{kh}{\mu} = \frac{1637 \ q \ Z}{2m(\rho_i)}$$

$$T = /80^{\circ}F = 640^{\circ}R$$
 $Y_g = .6$ $T_r = /.787$ $P_r = 5.354$ $Z = .87$

$$\frac{kh}{\mu} = \frac{1637(850)(.87)640}{2\ 1140\ 3600} = 94.38 \text{ using 2nd shut in}$$

$$\frac{kh}{\mu} = \frac{1637(670)(.87)640}{2\ 2040\ 4800} = 31.18 \text{ using initial shut in}$$

Using data from the 2nd shut in calculate skin:
The well was perforated or 8084 - 8134 = 50 feet
The DST interval was = 43 ft
The logs show 26 feet of good poresity.

M = 0.024 cp

$$k = 94.38 \frac{.024}{43} = 0.053 \text{ md}$$
permeability would be 0.079 und if $h = 26 \text{ ft is used.}$

$$5' = 1.1513 \left\{ \frac{\Delta p_{1m}}{m} - log \frac{k}{\phi \mu c r_{w}^{2}} + 3.2275 \right\}$$

$$5' = 1.1513 \left\{ \frac{3260 - 122}{1140} - log \frac{.053 3600}{.1(.025)(.3)^{2}} + 3.2275 \right\}$$

5'= .063

check to see if text was run long enough to be out of well box storage-controlled region. First

$$B_g = .00504 \frac{ZT}{P} \frac{1}{661/scf} = .00504 \frac{.87(640)}{3600} = .0007795 \frac{bt}{5c}$$

Trapped volume below shut in value V = 43 feet $(\frac{778}{1030})^2 = 2.589$ 661s

assume compressibility is approximated by p

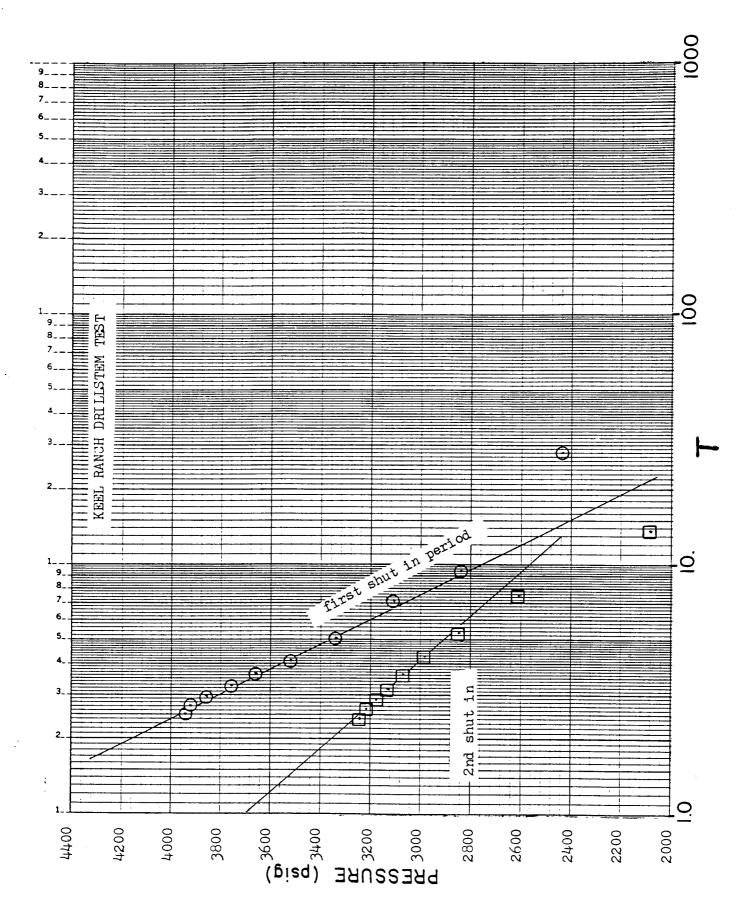
C = Vc = 2.589 = .000719 661/psi

Time to end of storage is given by $t = \frac{170,000 \text{ Ce}^{.145}}{kh/\mu}$

t= 170,000 (.000719) (e.146063)) = 1.31 hours

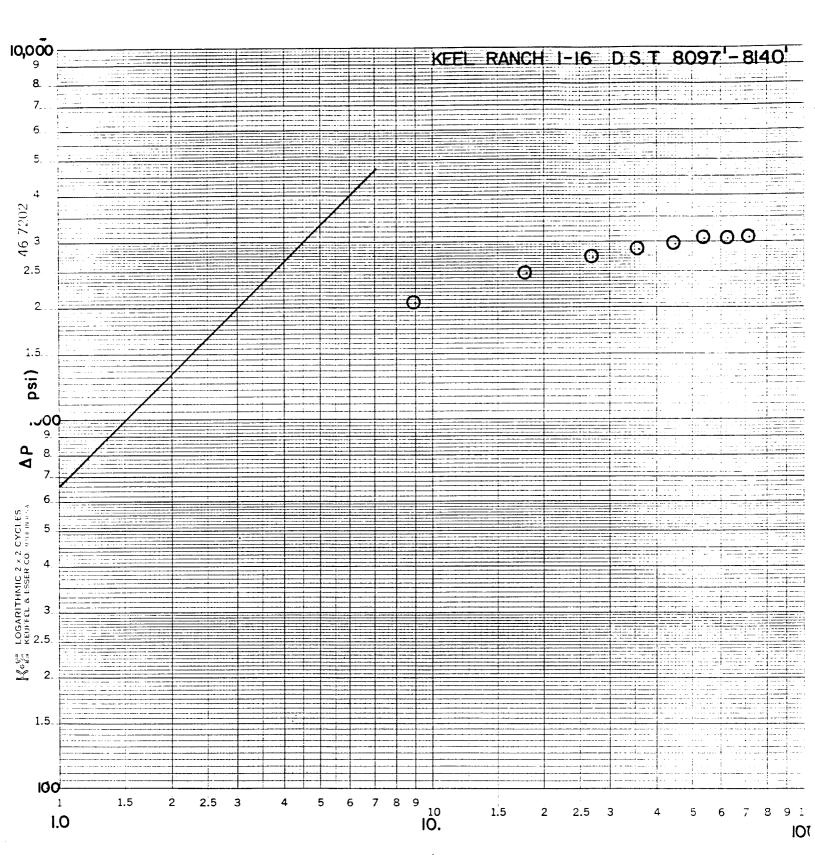
since the 2nd buildup lasted 1.5 hours, it should be analyyable.





CONSULTING PETROLEUM ENGINEER LITTLETON, COLORADO 80120 • (303) 797-8196

433 W. EASTER AVE.



TIME (minutes)

Flow Time	1st Min 30	2nd Min 90	
Closed In Press. Time	lst Min 30	2nd Min 90	
Pressure Readings	Field	Office Corrected	
Depth Top Gauge	8075' Ft.	NO Blanked Off	
BT. P.R.D. No.	202	Hour 12 Clock	
Initial Hydre Mud Pressure	5000	5009	
Initial Closed in Pressure	3805	3949	
Initial Flow Pressure	324 171	519 399	
Final Flow Pressure	229 114	187 122	
Final Closed In Pressure	3260	3267	
Final Hydro Mud Pressure	1.943	4928	
Depth Gauge	8136' Ft.	Blanked YES Off	
BT P.R.D. No.	326	Hour 12 Clock	
Initial Hydro Mud Pressure	5033	5072	_
Initial Closed In Pressure	3961	3965	
Initial Flow Pressure	359 203	652 388	
Final Flow Pressure	265 132	214 134	
Final Closed In Pressure	3293	3273	
Final Hydro Mud pressure	4978	4961	

Trigg Drilling Company Insitu Permeability Data Cause TGF #106 Exhibit 7 Page 9 of 13

Well: Keel Ranch 1-16

Mountain Fuel Supply/Trigg Drilling Co. Operator:

Location: Section 16 T12S1R13E

Carbon County, Utah

12-30-63 Date:

Service Company Performing Test: Halliburton, Inc.

Vernal, Utah

Tested Interval: 8097-8140 Formation Tested: Mancos Hole Size: 7 7/8" diameter

Drill collars above tester: $2\frac{1}{4}$ " ID - 430 Feet Drill pipe above drill collars: $4\frac{1}{2}$ " F.H. 16.6#/ft. Trigg Drilling Company Insitu Permeability Data Cause TGF #106 Exhibit #7 Page 10 of 13

Gauge #202

Depth 8075

First Flow Period Time Pressure Min. psig	First Shut-in Period Time Pressure Min. psig	Second Flow Period Time Pressure Min. psig	Second Shut-in Period Time Pressure Min. psig
0 519 5 324 10 273 15 239 20 216 25 200 30 187	0 187 0 2416 6 2839 9 3115 12 3329 15 3329 18 3654 21 3758 24 3845 27 3907 30 3949	0 399 15 187 30 151 45 137 60 132 75 128 90 122	0 122 9 2180 18 2607 27 2843 36 2985 45 3072 54 3129 63 3170 72 3206 81 3240 90 3267

Production Rates

First Flow Period: 1,233 MCFPD

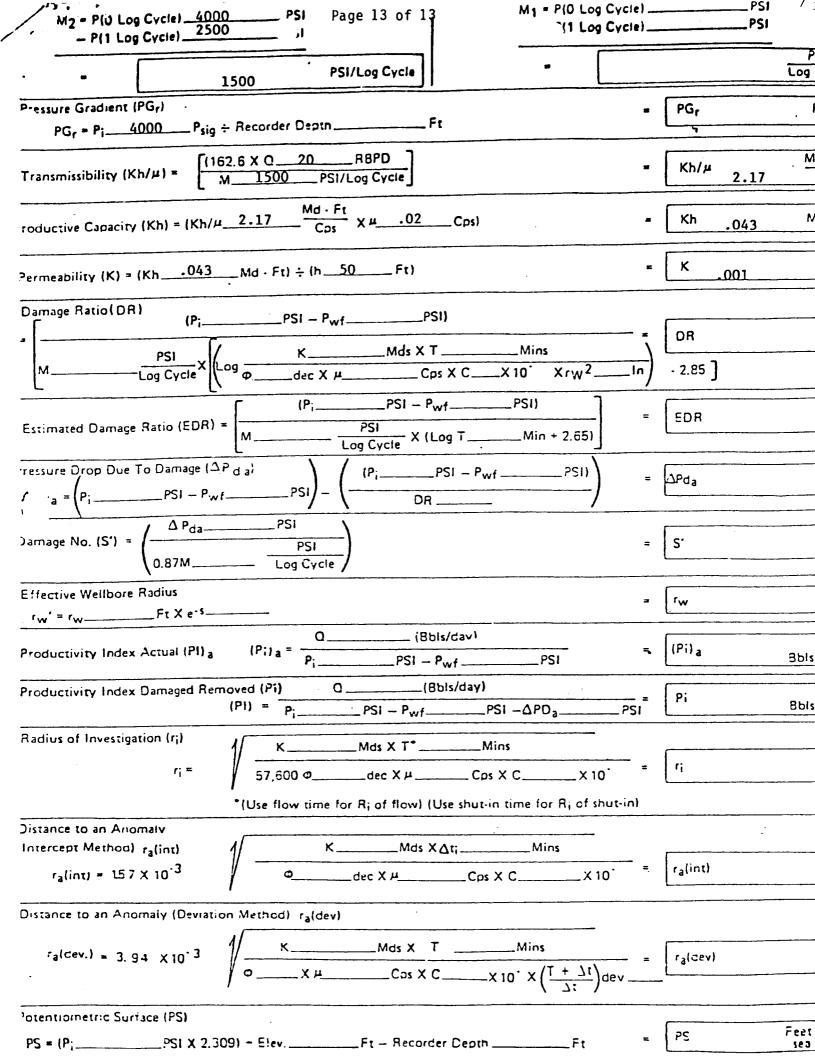
Second Flow Period: 850 MCFPD

TRIGG DRILLING COMPANY, INC.

Shut In Pressure Build Up June 4 - 12, 1982

ERATOR:Trigg Drlg.Co.,Inc.	
=643	
= /15	°R
01.2	
= 14.7	psia
= 5600	psia
= 863	psia
)/2 = 3232	psia
= 670	psi
=372	^R
0 = 4.82	
= 1.653	
= 1.079	
= .02 cp.	
°R	RCF
= .0058	——SCF
= 24,000	SCFC
RCF RB =24.79	RBP[
= 12%	
= 50	FT
=	FT
<u>120,480</u>	Min
))	=643 =615 =14.7 =5600 =863 =670 =372 =4.82 =1.653 =1.079 =02 cp. O°R =0058 =24.79 =12% =50 =643 =615 =615 =670 =02 cp.

	o from Early Time (Wellbore) Ma:	01 10	
	$\frac{\text{Kh}/\mu}{f} \text{ Wellbore} = \frac{1000}{Q} \qquad \frac{\Lambda P_f}{Q} = \frac{.7 \times 10^-}{Q} \text{ Group Factor} = \frac{1750 \text{ AP (PSI)}}{Q}$		·····
(1)	Wellbore Storage Factor Calculation (Uncorrected) Q 20 RBPD × -/ Group Factor f = AP 1750 PSI (In Match Range)	= [.008	}
(2)	W-III Starges Correction Factor	7	
(2)	(PI) Af 1100 PSI + (P2) Af 2000 PSI 2 CF = P _i 5600 PSI	= CF .28	
	CF =PSI		
(3)	- 11 C 1 L 1		
	fc = f × CF × CF	$= f_{c} .002$	
(4)	Permeability Calculation: (Wellbore) Early Time Match		
	K Wellbore = $\frac{Kh/\mu}{f}$ 1000 × fc0022 × μ 02 CPS h50 FT.	= K .001	Md
(5)	Permeability Calculation: (Formation) Late Time Afterflow Curve Match After Breakaway Point	<u> </u>	
	K Formation = Kh/μ (Fm) × fc × μ CP3	= [K	Md
(6)	Slope Calculations (Horner Straight Line)		
(0)	(162.6) (Q _ 20 _ RBPD) × μ (02 _ CPS) $M = \frac{(K001 JMds) \times (h _ 50 _ ft)}{(K001 JMds) \times (h _ 50 _ ft)}$	= [M],300) PSI/LOC CYCLE
(7)			· · · · · · · · · · · · · · · · · · ·
(7)	Damage Ratio (DR) Calculation: (PiPSI) - (PwfPSI)		
DR		= DR.	Dir
(8)		ΛΡd _o	PS
		\	PS Dir
(9)	Pressure Drop Due To Damage (ΛPd_a) $\Delta Pd_a = \begin{pmatrix} P_i & PSI - P_{wf} & PSI \end{pmatrix} - \begin{pmatrix} PSI - P_{wf} & PSI \end{pmatrix}$ $Domage No. (S') = \begin{pmatrix} \Lambda Pd_a & PSI & PSI \\ 0.87M & Domage \\ 0.87M & Domage \\ Domage No. (S') = \begin{pmatrix} APd_a & PSI \\ 0.87M & Domage \\ Domage No. \\ Domage No. (S') = \begin{pmatrix} APd_a & PSI \\ 0.87M & Domage \\ Domage No. \\ Domage N$	ΛPd _o	Dir
(9)	Pressure Drop Due To Damage (ΛPd_a) $\Delta Pd_a = \begin{pmatrix} P_i & PSI - P_{wf} & PSI \end{pmatrix} - \begin{pmatrix} PSI - P_{wf} & PSI \end{pmatrix}$ Domage No. (S') = $\begin{pmatrix} \Lambda Pd_a & PSI & PSI \\ 0.87M & Domage \end{pmatrix}$ Effective Wellbore Radius $Tw' = Tw \qquad Ft \ X e^{-S}$	ΔPd _α	Dir . f
(9) (10)	Pressure Drop Due To Damage (\text{\text{NPd}}_a) $\Delta Pd_a = \left(P_i - PSI - P_{wf} - PSI\right) - \left(\frac{PSI - P_{wf}}{DR} - PSI\right)$ $Damage No. (S') = \left(\frac{\Delta Pd_a - PSI}{0.87M} - \frac{PSI}{Log Cycle}\right)$ $Effective Wellbore Radius$ $r_{w'} = r_{w} - Ft \ X_i e^{-S} - \frac{PSI}{Log Cycle}$ $The Main Point Point Part Part Part Part Part Part Part Par$	ΔPd _a	Dir . f
(9) (10) (11)	Pressure Drop Due To Damage (\text{\text{NPda}}) $\Delta Pd_o = \begin{pmatrix} P_i & PSI - P_{wf} & PSI \end{pmatrix} - \begin{pmatrix} PSI - P_{wf} & PSI \end{pmatrix}$ $Damage No. (S') = \begin{pmatrix} \frac{\Lambda Pd_o}{0.87M} & \frac{PSI}{Log Cycle} \end{pmatrix}$ $Effective Wellbore Radius$ $r_{w'} = r_{w} & Ft \ X_i e^{-S} & \frac{PSI}{Log Cycle} $ $Radius of Investigation Colculation (R.1.)$	ΔPdα	Dir . f
(9) (10) (11)	Pressure Drop Due To Damage (\text{\text{NPd}}_a) $\Delta Pd_a = \left(P_i - PSI - P_{wf} - PSI\right) - \left(\frac{PSI - P_{wf}}{DR} - PSI\right)$ $Damage No. (S') = \left(\frac{\Delta Pd_a - PSI}{0.87M} - \frac{PSI}{Log Cycle}\right)$ $Effective Wellbore Radius$ $r_{w'} = r_{w} - Ft \ X_i e^{-S} - \frac{PSI}{Log Cycle}$ $The Main Point Point Part Part Part Part Part Part Part Par$	ΔPd _α	Dir . f
(9) (10) (11) (12) R.i.	Pressure Drop Due To Damage (\Pdo) $\Delta Pd_o = \left(P_i - PSI - P_{wf} - PSI\right) - \left(\frac{P_i - PSI - P_{wf}}{DR}\right)$ $Domage No. (S') = \left(\frac{\Delta Pd_o - PSI}{0.87M} - \frac{PSI}{Log Cycle}\right)$ Effective Wellbore Radius $r_{w'} = r_w - Ft \times e^{-S} - \frac{Ft \times e^{-S}}{Mds \times T_p} - \frac{Ft \times e^{-S}}{Mds \times T_p} - \frac{Mins.}{Mins.}$ $= \sqrt{\frac{K - Mds \times T_p}{57,600 \cdot \phi - \mu} - \frac{CPS \times c}{Mins}}$	ΔPdα	Dir . f
(9) (10) (11) (12) R.i.	Pressure Drop Due To Damage (\Pdo) $\Delta Pd_o = \left(P_i - PSI - P_{wf} - PSI\right) - \left(\frac{P_i - PSI - P_{wf}}{DR}\right)$ $Domage No. (S') = \left(\frac{\Delta Pd_o - PSI}{0.87M} - \frac{PSI}{Log Cycle}\right)$ Effective Wellbore Radius $r_{w'} = r_{w} - Ft \times e^{-S}$ Half Fracture Length $X_f = 2 \times r_{w'} e^{-S}$ Radius of Investigation Colculation (R.1.) $= \sqrt{\frac{K - Mds \times T_p - Mins.}{57,600 \ \phi - \mu - CPS \times c}}$	ΔPdα	Dir . f
(11) (12) (13)	Pressure Drop Due To Damage (\text{\text{NPd}}_a) $\Delta Pd_a = \left(P_i - PSI - P_{wf} - PSI\right) - \left(\frac{P_i - PSI - P_{wf}}{DR} - PSI\right)$ $Domage No. (S') = \left(\frac{\Delta Pd_a - PSI}{0.87M} - \frac{PSI}{Log Cycle}\right)$ $Effective Wellbore Radius$ $r_{w'} = r_{w} - Ft \ X c^{-5} - \frac{PSI}{C}$ $Radius of Investigation Colculation (R.I.)$ $= \sqrt{\frac{K - Mds \ X \ T_p - Mins.}{57,600 \ \phi - \mu - CPS \ X \ c}}$ $Expected Production Rate After Damage Cleanup$ $Rate (Qp) = D.S.T. Rate (Q) - \frac{Mcf \ d}{BbI \ day} \ X \ DR - \frac{PSI - P_{wf} - PSI}{DR}$ $= \frac{PSI - P_{wf} - PSI}{DR}$ $= \frac{PSI - P_{wf} - PSI}{DR}$ $= \frac{PSI}{DR}$ $= \frac{PSI}{DR$		Dir f Ft Mcf/c Bbls/c
(11) (12) R.i. (13)	Pressure Drop Due To Damage (\text{\text{NPd}}_0) \\ \Delta PSI - P_{wf} \qquad PSI - P_{wf} \qquad PSI) - \left(\frac{(P_i \qquad PSI - P_{wf} \qquad PSI)}{DR \qquad PSI} \\ Damage No. (S') = \left(\frac{\text{\text{\text{\text{NPd}}}_0 \qquad PSI}{0.87M \qqquad \qquad \qquad PSI} \\ \frac{PSI}{\text{\text{Log Cycle}}} \end{aligned} \] Effective Wellbore Radius \\ \text{rw'} = \text{rw'} \qquad \text{Ft X c^{-5}} \qquad \qqquad \qqquad \qqqq \qqqq \qqqqq \qqqqqq		Dir . f Ft Mcf/c



STATE OF UTAH L_VISION OF OIL, GAS AND MINING INSPECTION RECORD

Operator Trigg Drilling	Lease	ML-29324
	Contractor_	43-007-10753
Well No. Keel Ranch State 1-16 Location SWNE Sec. 16 T. 125 R. 13E Field Wildcat County Carbon State UT	Operation:	Drilling Workover Completion Abandonment Producing Other
Individual Well Ins	pection	
General:		·
Well Sign X BOP 1/4 Pollution Housekeeping Safety Surface u	control _	Marker 4/4 Location
Remarks:		
		
Facilities inspected: Tank meter, heate Identification Housekeeping Measurement facilities Storage and handling facilities		nds
Remarks: Tank not sealed Pit in clayer		ut not signed on
Action: Install well sign.		
Name Win Moon Title _		
April 5, 1984	x fo	r yes or satisfactory r no or unsatisfactory r not applicable

CHECKLIST FOR MICROFILMI'

COUNTY:
SECTION: TOWNSHIP: RANGE:
OPERATOR:
WELL NAME:
API NO. 43-//- ///5
WELL STATUS: DR P&A POW
YEAR OF COMPLETION:
LOCATION: FSL FNL FEL FWL 1/4 1/4
LEASE STATUS: FED STATE FEE INDIAN
BOND STATUS: YES NO
APD //
PLAT MAP
SPUD DATE
WELL COMPLETION
P&A REPORT AFTER ACTIVE COMPLETION //
FORMATION TOPS
FIELD / L/
LOGS
NOTES
1.
2.
3.
4.
5.
6.

TRIGG DRILLING COMPANY

Chromatographic Gas Analysis Report

Exhibit #8

Well Name:

Keel Ranch #1-16

Operator: Location:

Trigg Drilling Company Section 16, T12S, R13E

Carbon, Utah

Date Sampled:

12-18-81

Type of Sample: Spot

Comf.	Mole%	
Propane 1-Butane N-Butane I-Pentane N-Pentane	2.5380 0.5969 0.9489 0.3507 0.2649	DECEIVE JUN 22 1982
Hexane + CO2 Ethane Nitrogen Methane	0.2086 0.1979 4.5971 0.1803 90.1097	DIVISION OF OIL, GAS & MINING

Totals

100.0

Specific Gravity: 0.643

Observed SP. GR. 0.639

BTU/CU.FT: 1123.27 Observed BTU/CU.FT: 1127 Heating Value @ 30 In. HG., 60 DEG F. WET

Data Source:

Mountain Fuel Supply 625 Connecticut Ave.

P.O. Box 1129

Rock Springs, WY 92901

(307) 362-5611

TRIGG DRILLING COMPANY Oil Production Summary Exhibit #9

KEEL RANCH UNIT SW, NE, Section 16, Township 12S, Range 13E Carbon County, Utah

Month	<u>Year</u>	Days Produced	Barrels Of Oil	Avg. Daily Oil Prod. Barrels
Febuary	1982	4	5.0	1.25
March	1982	25	35.0	1.40
April	1982	21	2.5	0.12

During 50 days of production an average of 0.85 barrels of oil was produced.

Data Source: Report of Operations and Well Status Report Division of Oil and Gas Conservation

State of Utah

Form 3160-5	UNITED STA	ATES	SUBMIT IN TRIPLICATE	Form approved. Budget Bureau No. Expires August 31.	1004-0135
(November 1983) (Formerly 9-331)		HE INTERIOR	(Other Instructions a	5. LEASE DESIGNATION AND	
	BUREAU OF LAND M	ANAGEMENT			r _l
SUN (Do not use this	IDRY NOTICES AND Form for proposals to drill or to a use "APPLICATION FOR PERMI	REPORTS OF deepen or plug back to	o a different reservoir.	6. IF INDIAN, ALLOTTEE OR	TRIBE NAME
1.		OC.	T 3 1 1985	7. UNIT AGREEMENT NAME	
OIL GAS WELL	X OTHER			Keel Ranch Unit	
2. NAME OF OPERATOR	C COMPANY THE	.171	SIUN UF OIL	8. FARM OR LEASE NAME	
TRIGG DRILLING	G COMPANY, INC.		S & MINING	Keel Ranch Unit	
	et, Suite 2100, Denve	r. Colorado 8	30202	1–16	
4. LOCATION OF WELL (I See also space 17 bel	Report location clearly and in accor	dance with any State	requirements.*	10. FIELD AND POOL, OR WI	LDCAT
At surface				Wildcat	
1468'FEL, 1800	O'FNL SW/4 NE/4			11. SHC., T., R., M., OR BUK. SURVEY OR ARMA	AND
API No. 43007	10753 Entity No. 006	60		Sec. 16-T12S-R13	
14. PERMIT NO.	15. ELEVATIONS (6755 GR	Show whether DF, RT, G	R, etc.)	12. COUNTY OF PARISH 13	tah
16.	Check Appropriate Box 1	To Indicate Natur	e of Notice, Report, or (Other Data	
	NOTICE OF INTENTION TO:	1	SUBSEQ	UENT REPORT OF:	
TEST WATER SHUT-0	PULL OR ALTER CAS	ING	WATER SHUT-OFF	REPAIRING WELI	
FRACTURE TREAT	MULTIPLE COMPLET	E	PRACTURE TREATMENT	ALTERING CASIN	o
SHOOT OR ACIDIZE	ABANDON®		Other CHANGE OF OP	ABANDONMENT* FRATOR/OWNER	<u></u>
REPAIR WELL	CHANGE PLANS		(Norm: Report result	s of multiple completion on \	
(Other) 17. DESCRIBE PROPOSED OF	R COMPLETED OPERATIONS (Clearly st	tate all pertinent deta	ils, and give pertinent dates	eletion Report and Log form.) , including estimated date of	starting any
proposed work. If nent to this work.)	well is directionally drilled, give	subsurface locations	and measured and true vertic	al depths for all markers an	i zones perti-
	illing Company, Inc.				
October 1, 198	85, the new owner and	operator is:			
			410 17th Street	•	
			Denver, Colorad (303) 893-1044	0 80202	
			•	ld Sluder, Staff	Prod. Enginee
				e F. Miller, Prod	
•					
	79				
cc: Utah Natur	al Resources, Oil, G	as & Mining			
dfm					
18. I hereby certify that	the foregoing is true and correct	17.3	D	2	20 1005
SIGNED Jack E.	Trigg	TITLE Vice	President	October	29, 1985
(This space for Fede	ral or State office use)				
APPROVED BY		TITLE		DATE	
CONDITIONS OF AL	PROVAL, IF ANY:				

*See Instructions on Reverse Side

Form approved. Budget Bureau No. 1004-0135 SUBMIT IN TRIPLI つ STATES Expires August 31, 1985 Form 3160-5 UNI. Other instructions (November 1983) 5. LEASE DESIGNATION AND SERIAL NO. DEPARTMEN. OF THE INTERIOR Verse alge) Formerly 9-331) ML- TOTAL 21324 BUREAU OF LAND MANAGEMENT 6. IF INDIAN, ALLOTTEE OR TRIBE NAME SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT" for such proposals.) 7. UNIT AGREEMENT NAME KEEL RANCH UNIT WELL WELL X 8. FARM OR LEASE NAME NAME OF OPERATOR KEEL RANCH UNIT KAISER ENERGY, INC. 9. WELL NO. 3. ADDRESS OF OPERATOR 410 17th Street, Suite 2100, Denver, Colorado 80202 1 - 16LOCATION OF WELL (Report location clearly and in accordance with any State requirements.

See also space 17 below.)

At surface 10. FIELD AND POOL, OR WILDCAT Wildcat 11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA 1468'FEL, 1800'FNL SW/4 NE/4 Sec. 16-T12S-R13E API No. 4300710753 Entity No. 00660 12. COUNTY OR PARISH | 13. STATE 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 14. PERMIT NO. Utah Carbon 6755'GR Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data 16. SUBSEQUENT REPORT OF: NOTICE OF INTENTION TO: REPAIRING WELL PULL OR ALTER CASING WATER SHUT-OFF TEST WATER SHUT-OFF ALTERING CARING PRACTURE TREATMENT MULTIPLE COMPLETE FRACTURE TREAT X ABANDONMENT* SHOOTING OR ACIDIZING ABANDON⁴ SHOOT OR ACIDIZE (Other) CHANGE PLANS REPAIR WELL (Norn: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) (Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) • See attached well data sheet for current well configuration. We propose to lay down packer and tubing, set 50 sacks of cement on top of cast-iron bridge plug at 8,242 feet in 5 ½ inch casing and set 25 sacks of cement in 5 ½ inch casing at surface. No casing to be pulled. Remove wellhead and install dry hole marker. Attachment RECEIVED **AUG** 07 1986

DIVISION OF OIL GAS & MINING

cc: Utah Natural Resources, Oil, Ga	as & Mining			
dfm				
18. I hereby certify that the foregoing is true and correct				
SIGNED Richard Studer	TITLE Staff	Petroleum	Engineer	DATE August 5, 1986
Jerald Sluder				
(This space for Federal or State office use)				
APPROVED BY	TITLE			DATE
CONDITIONS OF ATTROVAL. IF AND	1 / . 1.	4	APPROV	ED BY THE STATE
1. See attached page for procedure.	modification	er 10		
			OF UT	AH DIVISION OF
evocedare.				

GAS. AND MINING

or egency of the raftmen/ A jurisdiction.

RECEIVED

WELL : KEEL HANCH 1-16

OPERATOR: KAISER ENERGY, INC.

AUG 07 1986

FIELD: KEEL RANCH UNIT

COUNTY: CARBON

STATE: UTAH

DIAIPION OF OF GAS & MINING

LOCATION: SEC. 16-1129-R13E

ELEVATION: 6.744' KB

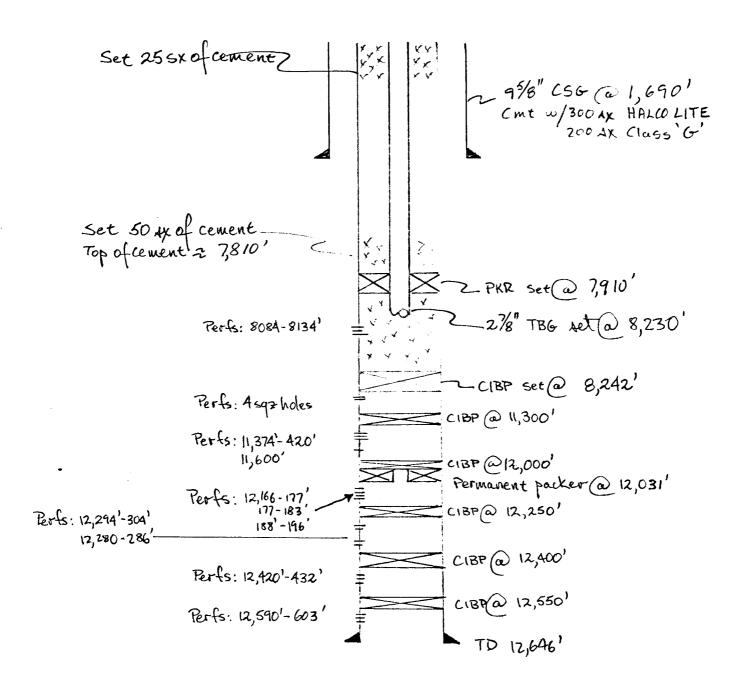
6.755' GL

SPUD DATE: 2/28/81

COMP. DATE: 10/23/81

1 D: 12.646' PBID: 8.242'

FORMATION: MANCOS



CONDITIONS OF APPROVAL PLUGGING AND ABANDONMENT PROCEDURE

Keel Ranch Unit Well No. 1-16 Sec. 16, T.12S, R.13E Carbon County, Utah

- 1. A 100' cement plug shall be placed at the surface in the 5-1/2" and 9-5/8" casing annulus. If the cement cannot be squeezed or spotted in this interval, the operator may perforate the 5-1/2" casing at 1740', establish circulation down 5-1/2" casing and up casing annulus, and pump adequate cement to place a 100' plug inside and outside 5-1/2" casing in the interval 1740'-1640'.
- 2. A surface reclamation plan shall be submitted to and approved by the Utah Division of State Lands and Forestry.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Form 3160-6 (November 1983) (Formerly 9-329)

MONTHLY REPORT
OF
OPERATIONS

Lease No.			.1	.3 5 = 30		
Communit	ization Ag		101529			
Unit Name	<u>Keel</u>	Ranch Unit	+			
Participati	ng Area _					
County	Carbon		State	Utah		
Operator_	KAISER	ENERGY, INC	2.			
□ Amond						

□ Amended Report

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396d), regulation (43 CFR 3162.4-3), and the terms of the lease. Failure to report can result in the assessment of liquidated damages, (43 CFR 3160), penalties, shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (43 CFR 3160).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
Keel Ranch 1-16	Sec. 16 SW NE	12 S	1 3E	TA	None	None	None	None	Well shut in, effective 1/1/8 WO P&A.

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate	Gas	Water	
	(BBLS)	(MCF)	(BBLS)	
*On hand, Start of Month	46.7	xxxxxxxxxxxxxx	XXXXXXXXXXXXXXXXX	
*Produced	None	None	None	
*Sold	None	None	xxxxxxxxxxxxxx	
*Spilled or Lost	None	xxxxxxxxxxxxxx	XXXXXXXXXXXXXXXX	
Flared or Vented	xxxxxxxxxxxxxxxx	None	XXXXXXXXXXXXXXX	
Used on Lease	None	None	XXXXXXXXXXXXXXX	
Injected	None	None	None	
Surface Pits	xxxxxxxxxxxxxxx	XXXXXXXXXXXXXXXX	None	
Other (Identify)	None	None	None	
On hand, End of Month	46.7	xxxxxxxxxxxxxxx	XXXXXXXXXXXXXX	
API Gravity/BTU Content 🖈 💮	None None	None	XXXXXXXXXXXXXXX	
Authorized Signature: Siane	Miller Address: 41	0 17th St., Suite	2100, Denver, CO 8	
Title: Production Technician		Page1 of	1	

- 110 f	;		Form approve Budget Bures	rd. ru No. 1004—0135
	STATES	Other Instructions	Expires Augu	181 31 1985
• • •	F THE INTERIO	111900	S. LEASE DESIGNATION	
BUREAU OF LAN	ND MANAGEMENT	11.1000	ML - 27. 8. IF INDIAN, ALLOT	124 r
SUNDRY NOTICES AN	ID REPORTS OF	N WELLS	G. IF INDIAN, ALLOT	THE OR TRIBE HAME
(Do not use this form for proposals to drill of use "APPLICATION FOR I				•
	PERMIT— for such prop	OKRIB.)	7. UNIT AGREEMENT	X.VP
1. OIL (CAS ()			KEEL RANCH U	
WELL WELL X OTHER 2. NAME OF OPERATOR		· · · · · · · · · · · · · · · · · · ·	8. FARM OR LEASE)	
			KEEL RANCH U	
KAISER ENERGY, INC.			9. WELL NO.	
410 17th Street, Suite 2100, De	nyar Colorado	80202	1-16	
4. LOCATION OF WELL (Report location clearly and in			10. FIELD AND POOL	OR WILDCAT
See also space 17 below.) At surface	•	•	Wildcat	•
1468'FEL, 1800'FNL SW/4 NE/4			11. BBC., T., R., M., O	
1,00 122, 1000 11.2 0., 11.2, 1		N. Committee of the Com	SURVEY OR AR	AL.
API No. 4300710753 Entity No. 0	0660		Sec. 16-T12S	-R13E
	nons (Show whether DF, RT	r, GR, etc.)	12. COUNTY OR PARI	SH 13. STATE
43.007.10753 6755'	GR		Carbon	Utah
				-
16. Check Appropriate	Box To Indicate Nat	ure of Notice, Report, or	Other Data	
NOTICE OF INTENTION TO:		SOBSI	EQUENT REPORT OF:	
TEST WATER SHUT-OFF PULL OR ALTE	ER CASING	WATER SHOT-OFF	REPAIRING	WELL
FRACTURE TREAT MULTIPLE CO.		FRACTURE TREATMENT	ALTERING	/ 1
SHOOT OR ACIDIZE ABANDON®		SHOOTING OR ACIDIZING	ABANDONI	\ []\
REPAIR WELL CHANGE PLAN	·s	(Other)		
(Other)		(Norz: Report resul	its of multiple completion deport and Log	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Cle	early state all pertinent d	letails, and give pertinent date	es, including estimated d	late of starting any
proposed work. If well is directionally drilled, nent to this work.)	give subsurface location	s and measured and true vert	ical depths for all mark	ers and zones perti-
Well has been plugged and	abandoned in ac	cordance with the	following proc	edure:
			0.	
10/13/86 MIRU Rippy, Inc.	's service rig.	. Blow dwn well.		•
10/14/86 POOH with 3/4 of	tbg string.			-
10/15/86 Finish POOH w/t	bg. RIH w/tbg	open ended & set	50 sx cmt plu	ug @ 8,242'. Fil
hole w/2% KCL wt		_	-	
10/16/86 Set 25 sx cmt p	plug @ surf. C	Cut off WH & set	30 sx cmt plug	w/1" pipe @ 94
btw 5½" csg & 9.	-5/8" csg. Weld	d plate on 9-5/8"	csg below plow	v lvl & erect dr
hole marker. Rec	laim & reseed]	loc.		
Rippy, Inc.'s cementing af	fidavit dated 1	10/16/86 as cement	verification i	s attached.
		-	•	
		m21m2	AIRMAN	(3)
•		り) (1)	CEUV P	
		With the same of t	3	
			iny 1 2 1986	
color Utah Natural Danasa O	21 : O - 0 M: 1	- 11	104 7 % 1000	
cc's: Utah Natural Resources, O		^{ng}	DIVISION OF	
Union Oil of Calif., Midl	and, ix		GAS & MINING	
dfm		OIL	" GW2 or Milland	
18. I hereby certify that the foregoing is true and co	rrect			
		- D-4 .1 - D - 1	27	1 10 1006
SIGNED WILLIAM SULLAN	TITLE Stall	Petroleum Enginee	DATE NOVE	mber 10, 1986
(This space for Federal or State office use)				
			•	
APPROVED BY	TITLE	APPR	OVED BY THE	STATE
Concentration of many and			UTAH DIVISIO	
	AC I		, GAS, AND M	INING
	*See Instructions of	n Keverse Side	11-13-36	
m., 10 11 6 G C		15 Y: Liller	- 1-)cole	
Title 18 U.S.C. Section 1001, makes it a crime United States any false, fictitious or fraudulent	for any person knowing	ngly and willfully to make t	to any department o.	agency of the
civics any imac, heritious of Haudulent	statements of represe	entations as to amy matter	within its jurisdictor	<u>و</u>

RIPPY, INC.

Rippy Sales & Service
P.O.Box 60065
Grand Junction, Co. 81506

NOVEWED NOVED

DATE 10/16/86

CEMENTING AFFIDAVIT

PULLING & PLUGGING REPORT

FASE		Kae	l Ra	neh 2	Lit	WELL NO	0. 1-16	
	1 16 tow							
No	71. C)F		CASII	NG REC	OVERED		
	FT. C)F		CASII	NG REC	COVERED		
			PLU	GS SET				
1	50	SAX CEMENT	SET AT	8242	_ F T	то7	7752	FT.
2	25	SAX CEMENT	SET AT	urface	_FT	10		FT.
3	25 30 toff well	SAX CEMENT	SET AT	fore le	Etem	10	493/8	FT.
4.	t off well	SAX CEMENT	SET AT	plate	جمس د ۔ FT	IO	regulation	FT.
5. Cla	ion loot	SAX CEMENT	SET AT		_ FT	TO		FT.
7		SAX CEMENT	SET AT		_ FT	то		FT.
8		SAX CEMENT	SET AT		_ FT	то		FT.
9		SAX CEMENT	SET AT		_ FT	TO		FT.
10		SAX CEMENT	SET AT		_ FT	TO		FT.
11		SAX CEMENT	SET AT		_ FT.	TO		FT.
12		SAX CEMENT	SET AT		_ FT	TO	·	FT.
				RIPPY, INC				
						R -	1	

SIGNED ON J - Kypjey Ja